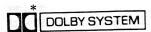
Service Manu

Dolby NR-Equipped **Double Cassette Deck**

Cassette Deck RS-T11





Color

(K)...Black Type (S)...Silver Type

Color	Areas
(K) (S)	[E]Continental
r sontia a lingua sortia.	Europe.
(K) (S)	[EK]United Kingdom.
(K) (S)	[EH]Holland.
(K) (S)	[EG]F.R. Germany.
(K) (S)	[XA]Asia, Latin
	America, Middle
	Near East, Africa
	and Oceania.
(K) (S)	[XL]Australia.
(K)	[XB]Saudi Arabia.

SPECIFICATIONS

■ CASSETTE DECK SECTION

Stereo cassette deck Deck system 4-track, 2-channel Track system Heads (DECK A) REC/PLAY Solid Permaloy head Double-gap ferrite head **Erasing** (DECK B)PLAY Solid Permaloy head Motors (DECK A) Capstan/reel table drive 2 speed electronically controlled DC motor (DECK B) Capstan/reel table drive 2 speed electronically controlled DC motor Recording system 80 kHz Bias frequency AC erase Erasing system 4.8 cm/sec. (1-7/8 ips) Tape speed Frequency response (w/o Dolby N.R.) 20 Hz~16 kHz (±15 dB) METAL 30 Hz~15 kHz (DIN) 20 Hz~15 kHz (±15 dB) CrO₂ 30 Hz~15 kHz (DIN) NORMAL 20 Hz~15 kHz (±15 dB) 30 Hz~15 kHz (DIN) (signal level = max recording level, CrO₂ type tape)

0.08% (WRMS) Wow and flutter Fast Forward and Rewind Time

Approx. 105 seconds with C-60 cassette tape

Input sensitivity and impedance LINE

Output voltage and impedance

LINE

HEADPHONES

400 mV/3.2 kΩ $80 \text{ mV/8} \Omega$

 $60~mV/47~k\Omega$

■ GENERAL

18W Power consumption Power supply

AC 50 Hz/60 Hz, 240V For Australia AC 50 Hz/60 Hz, 220V For continental Europe AC 50 Hz/60 Hz, 110V/127V/220V/240V For others $430 \times 120 \times 228 \text{ mm}$ Dimensions (W×H×D) $(16-15/16" \times 4-23/32" \times 8-31/32")$ Weight

3.8 kg (8.4 lb.)

Note:

66 dB (CCIR)

56 dB (A weighted)

Specifications are subject to change without notice. Weight and dimensions are approximate.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.



Dolby B NR on

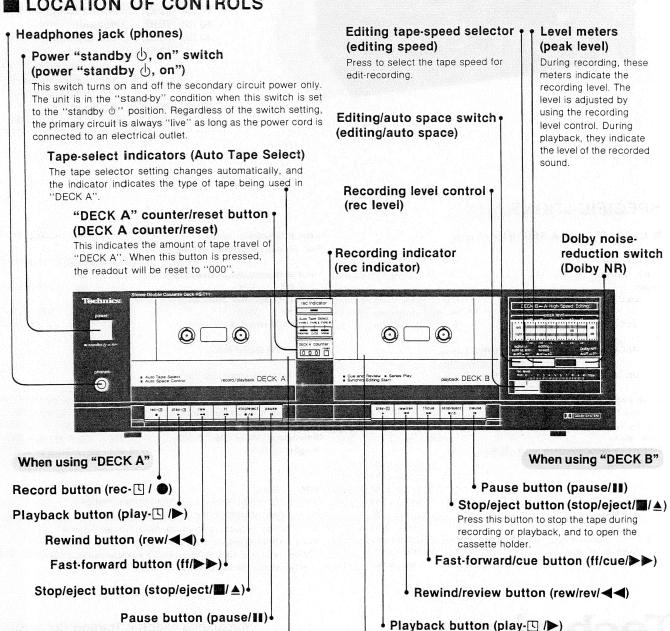
NR off

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LOCATION OF CONTROLS



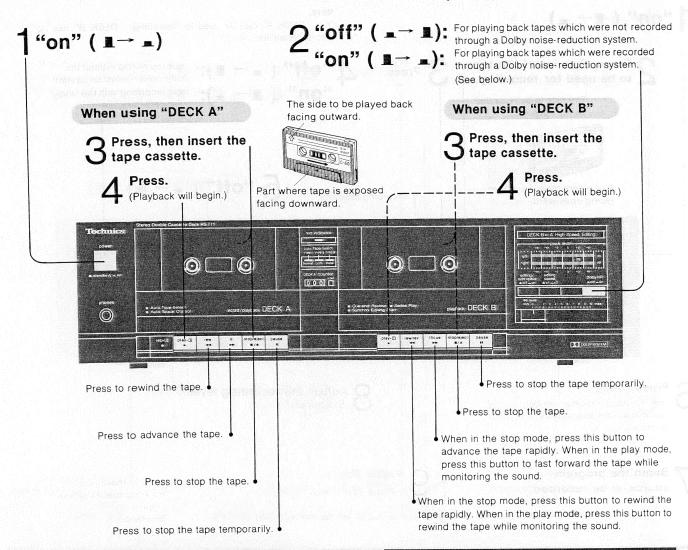
Cassette holder

Cassette holder

OPERATION Playback

Notes:

- "DECK A" and "DECK B" cannot both be used for playback at the same time.
- Do not press the stop/eject button while the tape is moving, doing so might cause a malfunction or damage the tape.



Dolby noise-reduction system

The Dolby noise reduction system boosts low level high frequency signals during recording. During playback, these high frequency signals are reduced by a corresponding amount and, therefore, noise is reduced.

This unit uses the Dolby-B type noise-reduction system.

Dolby noise-reduction system manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Automatic tape selector system

This cassette deck automatically detects the type of tape being used, and adjusts for the proper bias and equalization.

The tape-select indicator indicates the type of tape being used in "DECK A".

"Metal" lights when no tape has been loaded in the cassette holder of "DECK A".

Series playback

Continuous playback from one side of a tape in "DECK A" to one side of a tape in "DECK B" (or from "DECK B" to "DECK A") is possible.

• When starting from "DECK A"

First press the playback button on "DECK A", and then press the playback button on "DECK B".

When starting from "DECK B"

First press the playback button on "DECK B", and then press the playback button on "DECK A".

Recording

1 "on" (**1** → **1**) Only "DECK A" can be used for recording. "DECK B" has no record capability. "off" (▲→ ■): Tape recording without the Dolby noise-reduction system. Press, then insert the tape Press. to be used for recording. "on" (♣→ ♠): Tape recording with the Dolby noise-reduction system. The side to be recorded facing outward. 5 "off" (**-**→ **1**) Part where tape is exposed Recording indicator facing downward. \bigcirc Press. Adjust the recording level. (See below.) The recording indicator will be illuminated. (Recording standby mode) Press. Begin the program Press to make nonsource to be recorded. (Recording will begin.) recorded spaces between tunes.

To make non-recorded spaces between tunes

Press to stop the recording.

With this unit, by following the steps below, it is possible to make non-recorded spaces (four seconds long) between tunes.

- During recording, press the editing/auto space switch.
 After about 4 seconds, "DECK A" will automatically change to the recording stand-by mode.
- To start the recording again, set the switch to the "off" position. (Recording will begin.)

To erase recorded sounds

- Insert the recorded tape cassette into the cassette holder of "DECK A".
- Set the Dolby noise-reduction switch to the "off" position.
- Set the recording level control to the minimum ("0") position.
- 4. Press the record button, and then let the tape run.

Note that any sounds on the tape will be automatically erased if a new recording is made on that part of the tape.

Note:

Press to temporarily stop the recording.

Sounds from the deck cannot be heard while the editing/auto space switch is pressed in, so set the tape-monitor switch (on the receiver, etc.) to the "source" position to be able to monitor the sound.

(See below.)

Your attention is drawn to the fact that recording prerecorded tapes or other published or broadcast material

may infringe copyright laws.

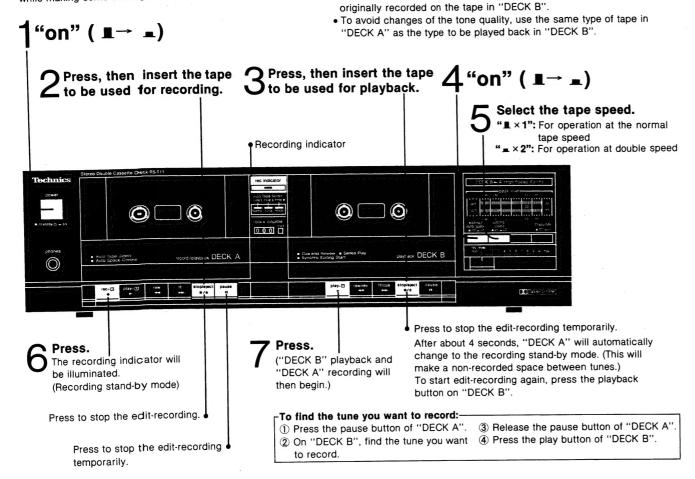
Adjustment of the recording level

The numbers which you should use as a guide for the adjustment of the tape level will differ depending upon the type of tape used.

Tape type	Normal (TYPE I) CrO ₂ (TYPE II)	Metal (TYPE IV)
Level (Dolby NR off)	0dB	+3dB
Level (Dolby NR on)	+3dB	+6dB

Edit-Recording

"Edit-recording" is recording from one tape to another while making some charages.



Notes:

the edit-recording is finished.

• In order to avoid incorrect operation, be sure to set the editing/auto space switch to "off" and press the stop/eject button of "DECK A" after

 Recording level as well as equalizer effects and Dolby noise-reduction effects are recorded on to the tape in "DECK A" exactly as they were

Timer Recording/Playback

If an audio timer (option) is connected to this unit, recording of a radio broadcast, or tape playback, will automatically begin at the preset time. Connect the AC power cord of this unit to the power source outlet of the timer.

(See the operating instructions of the timer for detailed information.)

When setting the timer for timer-controlled recording or playback, the timer should be set to a time which will extend beyond the time of one side of the tape.

This is because, if the timer switches OFF before the tape reaches its end, the capstan and pinch roller remain pressed together, which might adversely affect their performance.

Timer recording

1. Prepare for recording

(Follow steps 1 through 8 of "Recording" on page 5. After adjusting the recording level, press the stop/eject button and the pause button.)

2. Set the timer to the desired recording-start time. (Power will be off.)

3. Press the record button.

(At the set time, the power will come on and the broadcast will be recorded.)

After setting the timer

Make sure that the power switch is set to the "on" position.

Timer playback

- 1. Rewind the tape to the position from which you want playback to begin.
- 2. Set the timer to the desired playback-start time.
- 3. Press the playback button of whichever deck you want to use, "DECK A" or "DECK B".

(At the set time, power will come on and the playback will begin.)

For timer playback, playback always starts from "DECK A" in the series playback mode.

After setting the timer

Make sure that the power switch is set to the "on" position.

DISASSEMBLY INSTRUCTIONS

DISAS	SEMBLY INSTRUCTIONS		
Ref. No.	How to remove the cabinet	Ref. No. 4	How to remove the LED meter P.C.B. and VR/SW P.C.B.
Procedure 1	Remove the 4 screws.	Procedure 1 → 4	 Remove the 2 screws (, 2). Push the one tab aside, and then remove the VR/SW P.C.B.
Ref. No.	How to remove the main P.C.B.		 Remove the one screw (3). Push the 3 tabs aside, and then remove the LED meter P.C.B.
Procedure 1 → 2	 Remove the 2 screws (1, 2). Open the side of back chassis, and then pull down it. Remove the one screw (3). Remove the 4 tabs aside. 		Tabs
Ope	Main P.C.B. Open		LED Meter P.C.B.
	Fig. 1		VR/SW P.C.B. Fig. 3
Ref. No.	How to remove the mechanism unit	Ref. No. 5	How to remove the LED P.C.B.
Procedure 1 → 3	 Remove the 6 screws (~6). Push the eject button. Remove the counter belt (for mechanism 	Procedure 1 → 5	1. Remove the 2 screws (7, 3). (fig. 2) 2. Remove the 3 tabs aside. (fig. 2)
	unit of DECK A).	Ref. No.	How to remove the front panel
Tabs	nter Belt	Procedure 1 → 3 → 4 → 5 → 6	
LED P.C.B.	Fig. 2	Open	Open Front Panel
			Fig. 4
		^	

— 6 **—**

MEASUREM ENT AND ADJUSTMENT METHODES

Measurement Condition

- Input level controls; Maximum
- Editing switch; Off
- NR switch; Off
- Editing tape spe ed switch; X1

Measuring instrument

- EVM(Electronic Voltmeter)Oscilloscope
- OscilloscopeDigital frequency counterAF oscillator

QZZCFM

Test tape

- Head azimuth adjustment (8kHz, -20dB); QZZCFM
 Tape speed adjustment (3kHz, -10dB); QZZCWAT
- Playback freque ncy response (315Hz, 12.5kHz, 10kHz, 8kHz, 4kHz, 1kHz, 250kHz, 125kHz, 63kHz, -20dB);

- Make sure heads are clean
- Make sure capstan and pressure roller are clean
- Judgeable room temperature 20±5°C(68±9°F)
- ATT(Attenuator)
- DC voltmeter
- Resistor (600Ω)
- Playback gain adjustment (315Hz, 0dB); QZZCFM
- Overall frequency response, Overall gain adjustment Normal reference blank tape; QZZCRA CrO2 reference blank tape; QZZCRX Metal reference blank tape; QZZCRZ

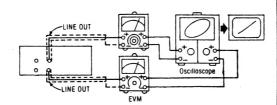
HEAD AZIMUTH ADJUSTMENT

 Playback the azimuth adjusted part(8kHz, -20dB) of the test tape(QZZCFM) and regulate the angle adjusting screw so that the outputs of L-CH and R-CH are maximized.

(When the adjusting positions are different with L-CH and R-CH, find a position where the outputs of L-CH and R-CH are balanced, and then make the adjustment.)

- 2.At the same time, obtain a lissajous waveform and eliminate phase deflection.
- After adjustment, lock the tape guide height and angle adjustment screws.





TAPE SPEED ADJUSTMENT

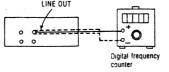
High speed

- 1. Set the editing tape speed switch to "X2" and connect the Deck A = TP1 and TPN1, Deck B = TP2 and TPN2.
- Playback the middle part of the test tape (QZZCWAT).
 Adjust Deck A = VR803 so that the output is within the standard.

Normal speed

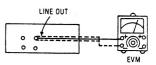
- 4.Set the editing tape speed switch to "X1" and open the Deck A = TP1 and TPN1, Deck B = TP2 and TPN2.
- 5.Playback the middle part of the test tape (QZZCWAT).
- 6.Adjust Deck A = VR801 and Deck B = VR802 so that the output is within the standard.

Standard value: 3000±15Hz(Normal), 6000±630Hz(High)



PLAYBACK FREQUENCY RESPONSE

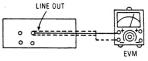
- 1.Playback the playback frequency response part (315Hz, 12.5kHz~63Hz, -20dB) of the test tape (QZZCFM).
- Check that the frequency is within the range shown in Fig.1 for both L-CH and R-CH. (See page 9.)



PLAYBACK GAIN ADJUSTMENT

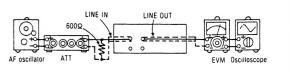
- 1.Playback the playback gain adjusted part (315Hz, 0dB) of the test tape (QZZCFM).
- 2.Adjust Deck B=VR1(L-CH) ((VR2(R-CH))) and Deck A=VR3(L-CH) ((VR4(R-CH))) so that the output is within the standard.

Standard value: 0.4±0.02V



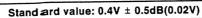
OVERALL FREQUENCY RESPONSE

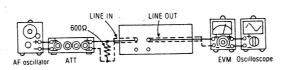
- 1.Set a normal blank tape (QZZCRA) and record by applying signal (50Hz ~ 12.5kHz), 20dB attenuated from the reference input level signal (1kHz, -24dB).
- 2.Playback the signal recorded in step 1, and check that the level of each output frequency is within the range shown in Fig.2 in comparison with the reference frequency (1kHz).
- 3.If it is not within the standard range, adjust the bias current by Deck A = VR301(L-CH) (Deck A = VR302(R-CH)) so that the frequency level is within the standard.
- Level up in high frequency range......Increase the bias current.
- Level down in high frequency range...Decrease the bias current.
- 4.After that, increase the signal recorded on CrO₂ blank tape(QZZCRX) and metal blank tape(QZZCRZ) up to 14kHz and adjust in the same way as mentioned above and check that the frequency level is within the range shown in Fig.3.



OVERALL GA IN ADJUSTMENT

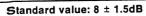
- 1.Set a normal blank tape (QZZCRA) and apply the reference input level signal (1kHz, -24dB) in record pause mode.
- 2.Adjust the ou tput 0.4V by attenuator and then record.
- 3. Playback the signal recorded in step 2, and check that the output is within the standard.
- 4.If it is not within the standard, adjust Deck A = VR5(L-CH) ((Deck A = VR6(R-CH))) and repeat the step (1), (2) and (3) until the output is within the standard.





DOLBY NR CIRCUIT

- 1.Set a normal tape and apply 5kHz signal in record pause
- 2.Adjust by attenuator so that the output between terminal 6(L-CH) (terminal 19(R-CH)) of IC401 and ground is 12.3mV.
- 3.Turn NR switch ON, and check that the level changes as specified from the level in NR out mode.



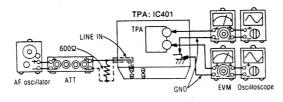
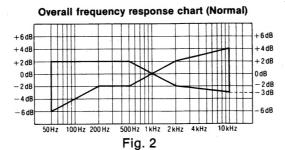


Fig. 1



Overall frequency response chart (CrO₂, Metal)

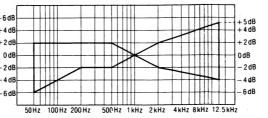
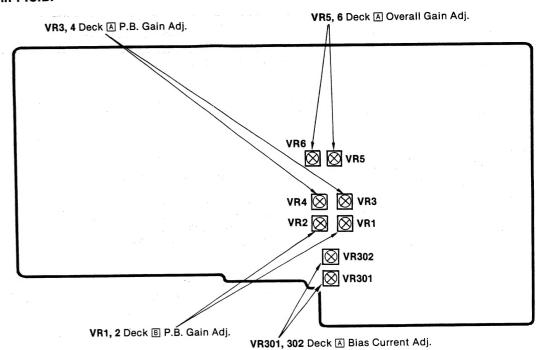
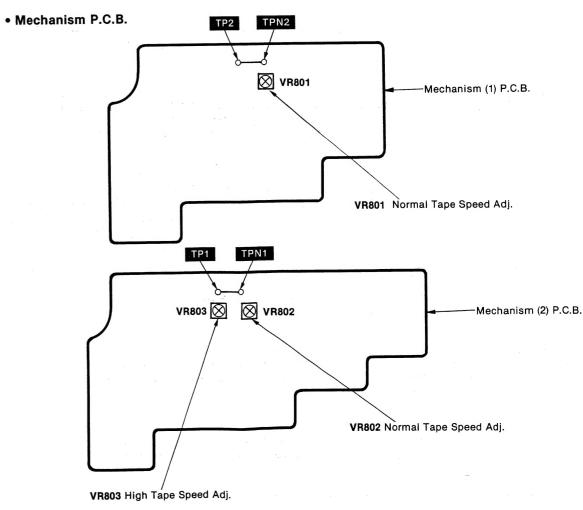


Fig. 3

• Adjustment Points

• Main P.C.B.





--- 10 ---

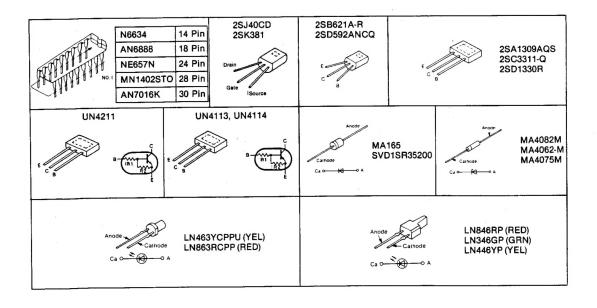
MICROCOM PUTER TERMINAL FUNCTION AND WAVEFORM (IC801: MN14-02STO)

Terminal No.	Symbol	Name	Function/operation	
1	Vss		Connection to GND.	
2	CO9		Non connection.	
3	CO8	REC Prescript signal output	"H" when LINE IN is REC mode. "L" when LINE IN is other mode.	
4	CO7	Remote control signal cancellation output	(a) LINE IN REC mode (Deck A). PLAY mode (Deck A, Deck B). (b) EDITING mode (Deck A, Deck B). Except (a) mode. Remote control signal (SNS0 Terminal output signal output signal)	
			input signal) "H" "H" (output) "L" One pulse signal H L 60~80msec	
5	CO6	Direct muting (DMT) signal output	"L" in mute on (STOP, FF/REW, CUE/REV and each selector), "H" in mute off (REC, PLAY). DMT Output timing of each selector.	
			EO0, EO2, EO3 Output signal CO6 (DMT) Output signal H H H H H 400~500 msec	
6	CO5	Muting off signal output of playback AMP	Deck	
7	AI3	Reading of input switch state deck B auto tape selector (S904)	"L" when auto tape selector is on mode. "H" when auto tape selector is off mode.	
8	Al2	Reading of input switch state deck B FF/REW (S902)	"L" when FF/REW switch is on mode. "H" when FF/REW switch is off mode.	

		· · · · · · · · · · · · · · · · · · ·	
Terminal No.	Symbol	Name	Function/operation
9	Al1	Reading of input switch state deck A, deck B motors (S906, S903)	 DO0 output (Scan A) signal → "L" Deck A "L" in motor switch on, "H" in motor switch off. DO1 output (Scan B) signal → "L" Deck B "L" in motor switch on, "H" in motor switch off.
10	A10	Reading of input switch state deck A, deck B PLAY (S905, S901)	 DO0 output (Scan A) signal → "L" Deck A "L" in PLAY switch on, "H" in PLAY switch off. DO1 output (Scan B) signal → "L" Deck B "L" in PLAY switch on, "H" in PLAY switch off.
11	BI3	Reading of input switch state editing (S1)	"L" when editing switch is on mode. "H" when editing switch is off mode.
12	BI2	Reading of input switch state Tape speed selector (S2)	"L" when tape speed selector is on mode. "H" when tape speed selector is off mode.
13	BI1	Reading of input switch state deck A auto tape selector (S908)	"L" when auto tape selector is on mode. "H" when auto tape selector is off mode.
14	BIO	Reading of input switch state deck A REC (S907)	"H" when REC switch is on mode. "L" when REC switch is off mode.
15	EO0	Mode selector deck A	• "L" in PLAY mode, "H" in other mode.
16	EO1	Playback equalizer (120μs/70μs) selector	•"L" in 120μs mode, "H" in 70μs mode.
17	EO2	Tapespeed (X1/X2) selector	• "L" in normal speed (X1), "H" in high speed (X2).
18	EO3	Dolby IC mode selector (REC/PLAY)	•"L" in REC mode, "H" in PLAY mode.
19	RST	Reset terminal	Used to reset the microcomputer when power is thrown in. Reset at "L".
20	TST		Connection to GND.
21	DO3	Motor selector deck B	• "H" in motor deck 围 off, "L" in motor deck 围 on.
22	DO2	Motor selector deck A	• "H" in motor deck A off, "L" in motor deck A on.

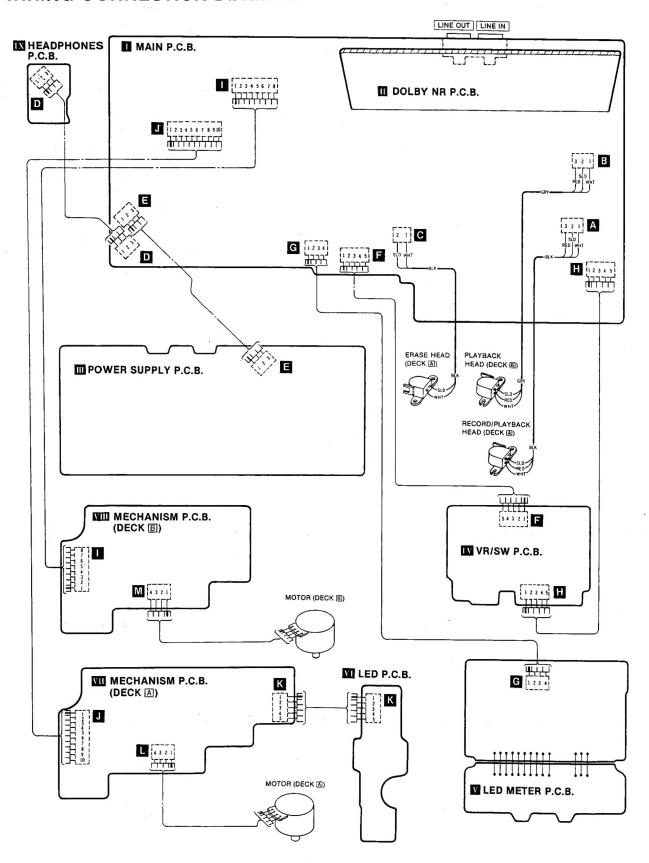
Terminal No.	Symbol	Name	Function/operation		
23	DO1	Scan B	• Scan signal for reading of PLAY switch input. 1 pules 3.5~4.3msec H H H L		
24	DOO	Scan A	• Scan signal for reading of REC switch input.		
25	SNS0	Remote control signal input	•Input of serial signal from remote control jack.		
26	SNS1		Non connection.		
27	V _{DD}	Power supply terminal	•Operative on 5±0.5 volts.		
28	osc	Clock Oscillation	Clock oscillation of about 300 kHz.		

TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES



WIRING CONNECTION DIAGRAM

D



RESISTORS & CAPACITORS

- Notes: * Important safæty notice:

 Components €dentified by △ mark have special characteristics important for safety. When replacing any of these comporants use only manufacturer's specified
 - parts.

 * Bracketed incalications in Ref. No. columns specify the

Parts without these indications can be used for all areas.

Numbering System of Resistor

Example

ERD	25	F	J	102
Туре	Wattage	Shap e	Tolerance	Value
ERX	2	AN	J	471
Type	Wattage	Shape	Tolerance	Value 47x10 ¹ (ohm)

Numbering System of Capacitor

Example

ECKD	1H	102	z	F
Type	Voltage	Value	Tolerance	Peculiarity
ECEA	50		M	330
Type	Voltage	Pe	culiarity	Value (33x10° microfarad)

Resistor Type	Wattage	Tolerance
ERD : Carbon ERG : Metal Oxide ERX : Metal Film ERQ : Fuse Type Metal ERD [] L : Carbon (chip) ERO [] K : Metal Film (chip) ERC : Solid	10 : 1/8W 12 : 1/2W 25 : 1/4W 1A : 1W 18 : 1/8W 52 : 1/4W 51 : 1/2W 2F : 1/4W 50 : 1/2W 2A : 2W	J :±5% F :±1% G :±2% K :±10%

Capacitor Type	Voltage	Tolerance
ECE : Electrolytic ECCD : Ceramic ECKD : Ceramic ECQM : Polyester ECQP : Polyproylene ECG : Ceramic ECEADDDN: Non Polar Electrolytic QCU : Ceramic (Chip Type) ECUX : Ceramic (Chip Type) ECF : Semiconductor	0J: 6.3V 1A: 10V 1C: 16V 1E: 25V 1H: 50V 1V: 35V 50: 50V 2H: 500V 2A: 100V 1: 100V KC: 400V AC KC: 125VAC (UL)	C: ±0.25pF J: ±5% K: ±10% Z: +80% -20% P: +100% -0% M: ±20% D: ±0.5pF G: ±2%
EECW : Liquid electrolyte double layer capcitor	1J : 63V	

Ref. No.	Part No.	Part Code	Ref. No.	Part No.	Part Code	Ref. No.	Part No.	Part Code
RESISTORS			R301	ERDS2TJ1R0	001 152 2419 4	E, EG, EH, XA		201 150 2101 2
		001 152 2421 0	R302, R303	ERDS2TJ563	001 152 2446 1	R605	ERDS2TJ101	001 152 2421 0
R1, R2	ERDS2T J101		R304	ERDS1FJ100	001 152 2612 5	EK, XL	EDD04 E 1000	001 150 0000 0
R3, R4	ERDS2T J101	001 152 2421 0	EK, XL			R606	ERDS1FJ220	001 152 2622 3
R5, R6	ERDS2T J101	001 152 2421 0	R304	ERDS2TJ100	001 152 2420 1	E, EG, EH, XA,		
R7, R8	ERDS2T J225	001 152 3149 3	E, EG, EH, XA.			XB	EBD007 1000	001 150 0100 0
R9, R10	ERDS2T J820	001 152 2453 2	XB			R606	ERDS2TJ220	001 152 2430 9
R11, R12	ERDS2T J392	001 152 2439 0	R305	ERDS1FJ100	001 152 2612 5	EK, XL		001 450 0040 4
R13, R14	ERDS2T J272	001 152 2354 4	EK, XL			R607, R608	ERDS2TJ102	001 152 2346 4
R15, R16	ERDS2TJ122	001 152 2423 8	R305	ERDS2TJ100	001 152 2420 1	R613	ERDS2TJ563	001 152 2446 1
R17, R18	ERDS2T J332	001 152 2357 1	E, EG, EH, XA,			R621, R622	ERQ14LKR22	001 190 0625 4
R19, R20	ERDS2T J154	001 152 2427 4	XB			EK, XL		
R21, R22	ERDS2T J273	001 152 2436 3	R308	ERDS2TJ561	001 152 2364 2	R623, R624	ERG1ANJ560	001 151 0077 9
R23, R24	ERDS2T J472	001 152 2362 4	R309	ERDS1FJ220	001 152 2622 3	EK, XL		
R25, R26	ERDS2TJ102	001 152 2346 4	EK, XL			R625	ERG1ANJ120	001 151 0023 3
R27, R28	ERDS2TJ330	001 152 2355 3	R309	ERDS2TJ220	001 152 2430 9	EK, XL		
R29, R30	ERDS2T J472	001 152 2362 4	E, EG, EH, XA.			R626	ERD2FCJ6R8	001 152 2481 8
R31, R32	ERDS2TJ182	001 152 2352 6	XB			EK, XL		
R33, R34	ERDS2TJ182	001 152 2352 6	R310	ERDS2TJ331	001 152 2356 2	R627, R628	ERX1ANJ8R2	001 151 0447 3
R37, R38	ERDS2TJ272	001 152 2354 4	R401, R402	ERDS2TJ242	001 152 3150 0	EK, XL		
R39, R40	ERDS2TJ183	001 152 2429 2	R403, R404	ERDS2TJ471	001 152 2361 5	R701, R702	ERDS2TJ363	001 152 2594 0
R41, R42	ERDS2T J152	001 152 2350 8	R405, R406	ERDS2TJ473	001 152 2363 3	R703, R704	ERDS2TJ472	001 152 2362 4
R43, R44	ERDS2TJ182	001 152 2352 6	R407, R408	ERDS2TJ432	001 152 2827 2	R705, R706	ERDS2TJ154	001 152 2427 4
R45	ERDS2TJ271	001 152 2435 4	R409, R410	ERDS2TJ332	001 152 2357 1	R707	ERDS2TJ562	001 152 2445 2
EK, XL			R411, R412	ERDS2TJ102	001 152 2346 4	R708, R709	ERDS2TJ221	001 152 2431 8
R45	ERDS2TJ330	001 152 2355 3	R413, R414	ERDS2TJ274	001 152 2437 2	R710, R711	ERDS2TJ330	001 152 2355 3
E. EG. EH, XA			R415, R416	ERDS2TJ184	001 152 2588 8	R801	ERDS2TJ103	001 152 2347 3
R46	ERDS2TJ271	001 152 2435 4	R417, R418	ERDS2TJ470	001 152 2442 5	R802	ERDS2TJ102	001 152 2346 4
EK, XL			R419	ERDS2TJ222	001 152 2353 5	R803	ERDS2TJ103	001 152 2347 3
R46	ERDS2TJ330	001 152 2355 3	R420	ERDS2TJ103	001 152 2347 3	R805	ERDS2TJ272	001 152 2354 4
E. EG. EH, XA			R423	ERDS2TJ102	001 152 2346 4	R806	ERDS2TJ332	001 152 2357 1
R47, R48	ERDS2TJ274	001 152 2437 2	R424	ERDS2TJ473	001 152 2363 3	R807, R808	ERDS2TJ103	001 152 2347 3
R49, R50	ERDS2TJ154	001 152 2427 4	R601	ERDS2TJ271	001 152 2435 4	R809	ERDS2TJ103	001 152 2347 3
E, EK, EH, XA.			EK. XL			R810	ERDS2TJ563	001 152 2446 1
XB			8601	ERDS2TJ470	001 152 2442 5	R811	ERDS2TJ332	001 152 2357 1
R51, R52	ERDS2TJ363	001 152 2594 0	E, EG, EH, XA			R812	ERDS2TJ392	001 152 2439 0
R53, R54	ERDS2TJ103	001 152 2347 3	R602	ERDS2TJ271	001 152 2435 4	R813	ERDS2TJ272	001 152 2354 4
R55, R56	ERDS2TJ563	001 152 2446 1	EK, XL			R814	ERDS2TJ103	001 152 2347 3
EK, XL			B602	ERDS2TJ470	001 152 2442 5	R815	ERDS2TJ563	001 152 2446 1
R57, R58	ERDS1FJ151	001 152 2512 8	E, EG, EH, XA			R817	ERDS2TJ271	001 152 2435 4
EK, XL	21.001.		R603	ERDS2TJ101	001 152 2421 0	R818, R819	ERDS2TJ391	001 152 2360 6
R59, R60	ERDS2TJ470	001 152 2442 5	8604	ERDS2TJ102	001 152 2346 4	R820	ERDS2TJ103	001 152 2347 3
EK, XL	51 15 QU		R605	ERDS1FJ100	001 152 2612 5	R821, R822	ERDS2TJ273	001 152 2436 3
EN, AL			nous	LINDON ON	301 13E 2012 J	1.021, 1.022	2100210210	301 102 2 100 0

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Ref. No.	Part No.	Part Code	Ref. No.	Part No.	Part Code	Ref. No.	Part No.	Part Code
R823	ERDS2TJ152	001 152 2350 8	C23, C24	ECKD2H101KB	001 103 1610 6	EK, XL		
R824	ERDS2TJ273	001 152 2436 3	C25, C26	ECKD1H561KB	001 103 1576 1	C403, C404	ECQB1H472JZ	001 106 3380 8
R825	ERDS2TJ152	001 152 2350 8	C27, C28	ECQB1H332JZ	001 106 3316 6	C405, C406	ECQM1H333JZ	001 106 0779 1
R826	ERDS2TJ102	001 152 2346 4	C29, C30	ECQB1H223JZ		C407, C408	ECQM1H473JZ	001 106 0810 9
R827	ERDS2TJ820	001 152 2453 2	C31, C32	ECQB1H123JZ	001 106 3239 2	C409, C410	ECQM1H334JZ	001 106 0786 2
EK, XL			C33, C34	ECQB1H123JZ	001 106 3239 2	C411, C412	ECQV1H104JZ	001 106 2571 7
R828, R829	ERDS2TJ103	001 152 2347 3	C35, C36	ECFR1E153KAY	001 108 1055 6	C413, C414	ECKD1H122KB	001 103 1459 5
R830	ERDS2TJ123	001 152 2424 7	C37, C38 △	ECKD1H223PF	001 103 1510 9	C415, C416	ECKD1H152KB	001 103 1467 5
R831	ERDS2TJ562	001 152 2445 2	C39, C40	ECEA1HK010	001 120 0341 5	C601, C602	ECEA0JS102	001 120 0152 8
R834	ERDS2TJ103	001 152 2347 3	C41, C42	ECEA1HK2R2B	001 120 0346 0	C603	ECEA0JU222	001 120 3161 5
R835	ERDS2TJ123	001 152 2424 7	C43, C44	ECEA1EK4R7	001 120 0294 5	C604, C605 △	ECKD1H223PF	001 103 1510 9
R836	ERDS2TJ154	001 152 2427 4	C45, C46	ECEA1EK4R7	001 120 0294 5	C606 △	ECKD1H223PF	001 103 1510 9
R837	ERDS2TJ563	001 152 2446 1	C47 A	ECKD1H223PF	001 103 1510 9	C607, C608	ECEA1AU221	001 120 3131 1
R838	ERDS2TJ154	001 152 2427 4	C301	ECKD1H392KB	001 103 1547 6	C609, C610	ECEA1CU471	001 120 3202 3
CAPACITORS			C302	ECFR1E682KAY		C611	ECEA16V1000	001 120 2545 7
C1, C2	RCBS1H391KBY	001 103 8540 5	C303, C304	ECFR1E222KAY	001 108 0942 8	C612	ECKD2H682PE	
	RCBS1H271KBY	001 103 5611 9	C305 A	ECKD1H223PF	001 103 1510 9	C701, C702	ECEA1HK2R2B	001 120 0346 0
C3, C4 C5, C6	ECQB1H123JZ	001 106 3239 2	C306	ECFD1V473KD	001 108 0256 3	C703 △	ECKD1H223PF	001 103 1510 9
C7, C8	ECEAOJU101	001 120 2829 8	C307	ECQP1183JZ	001 106 1083 2	C802	ECEA1HKR47	001 120 0338 0
C9, C10	ECEAUGUIOT ECEA1EK4R7	001 120 2023 5	C308	ECEA1CKS100	001 120 2600 7	C803	ECCD1H101K	001 103 0341 2
C11, C12	ECBT1H681KB	001 103 3535 2	E, EG, EH, XA			C804 △∆	ECKD1H223PF	001 103 1510 9
C15. C16	ECKD1H122KB	001 103 1459 5	C308	ECEA1CU220	001 120 2906 2	C806	ECEA1EK4R7	001 120 0294 5
C17, C18	ECCD1H181K	001 103 0466 0	EK, XL			C807	ECEA1AU221	001 120 3131 1
C19, C20	ECEA1HKR33	001 120 0337 1	C309, C310	RCBS1H271KBY	001 103 5611 9	C808, C809	ECFR1E682KAY	
C21, C22	ECEATHK010	001 120 0341 5	C311	ECEA1CKS100	001 120 2600 7	C810	ECQM1H224JZ	001 106 0746 0
621,622	ECEMINATIO	001 120 0041 5	C321	ECEA1CU220	001 120 2906 2			

REPLACEMENT PARTS LIST

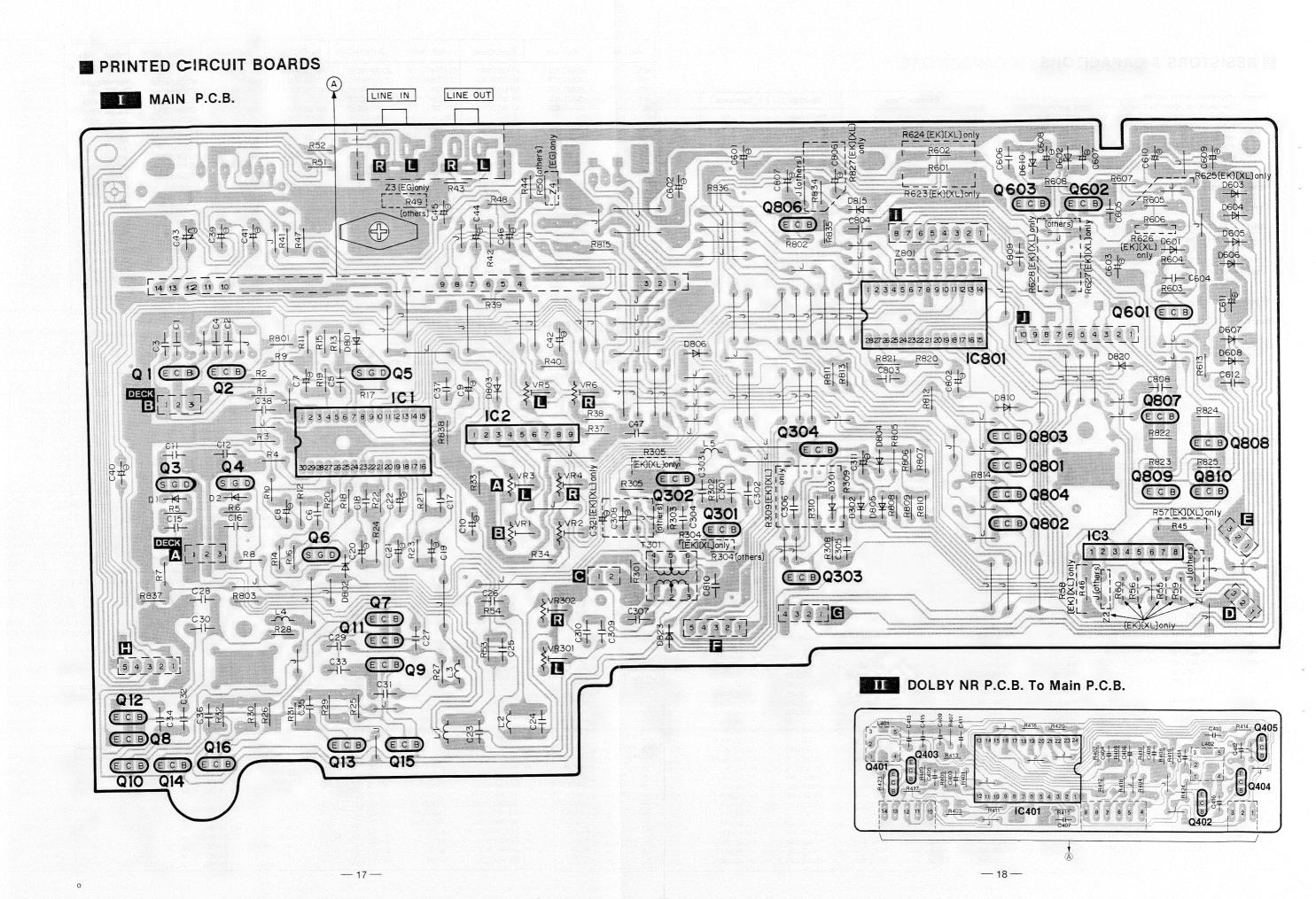
Notes: * Important safety notice:

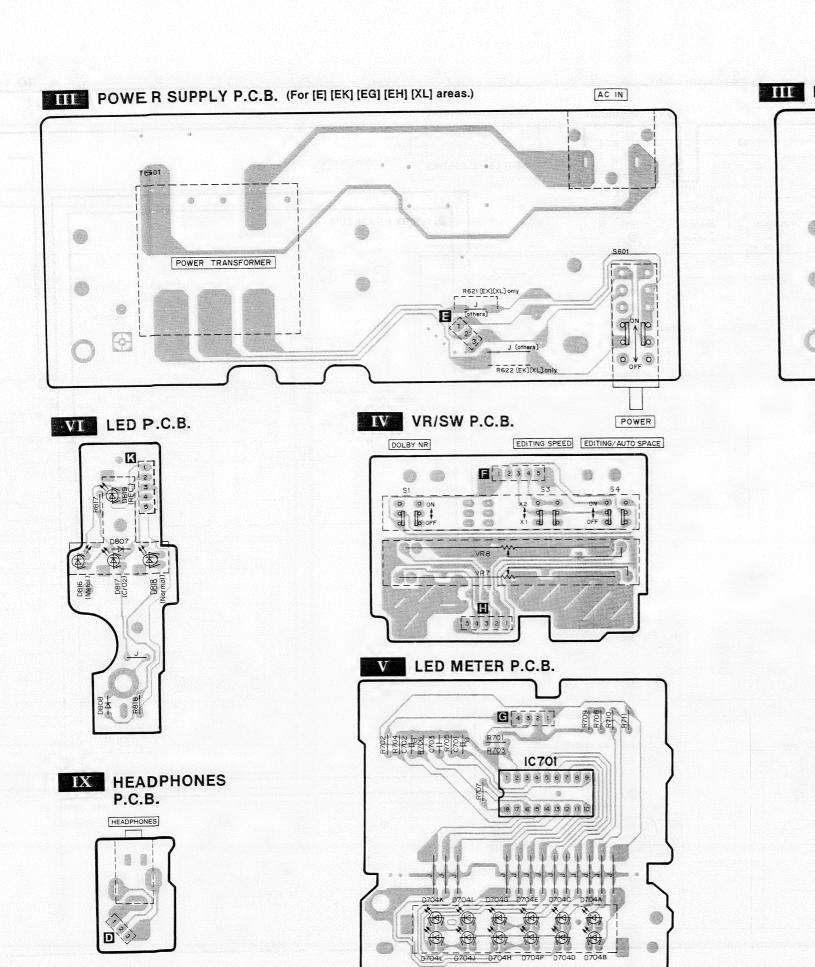
Components identified by \(\Delta \) mark have special characteristics important for safety.

When replacing any of these components use only manufacturer's specified parts.

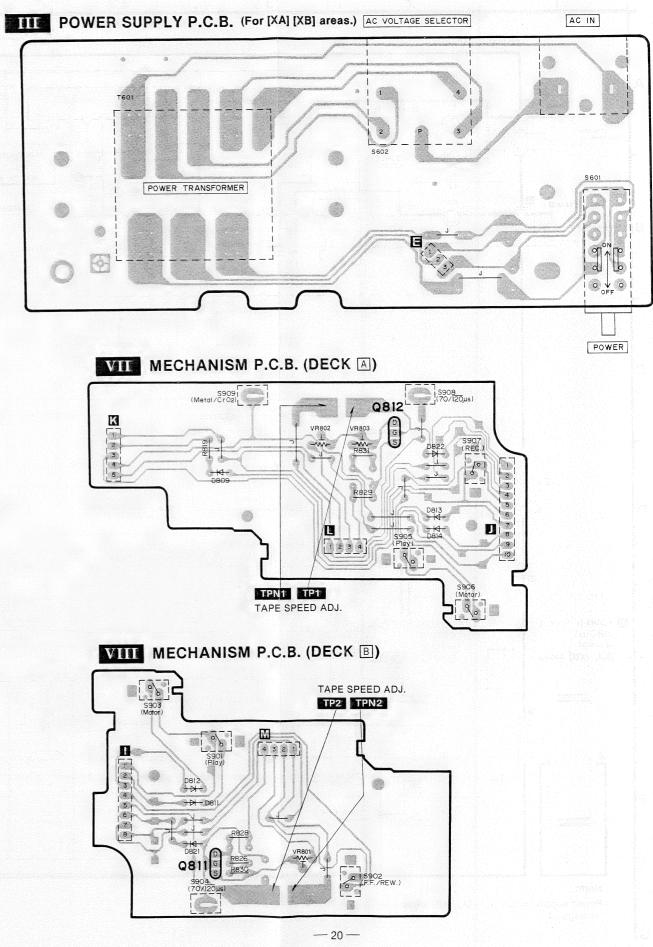
* Blacked indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.

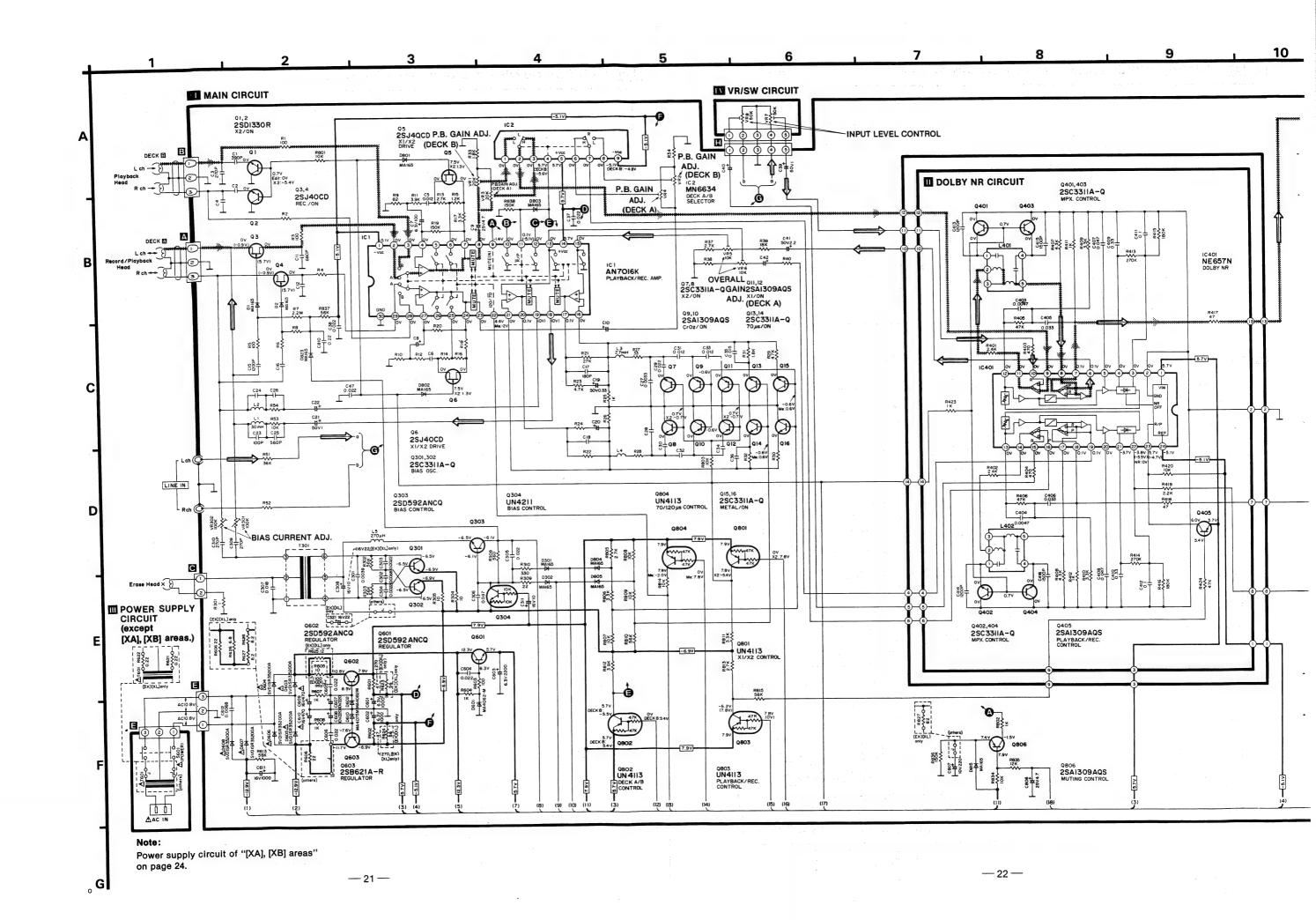
Ref. No.	Part No.	Part Code	Description	Ref. No.	Part No.	Part Code	Description
INTEGRATED CIRCL	IITS			D809, D810	MA165	001 032 0494 0	DIODE
		001 001 4000 A	1.0	D811, D812	MA165	001 032 0494 0	DIODE
101	AN7016K	001 061 4629 4 001 061 0884 7		D813, D814	MA165	001 032 0494 0	DIODE
IC2	MN6634			D815	MA165	001 032 0494 0	DIODE
1C3	M5218L		I.C., OPERATION AMP.	D816	LN846RP	001 032 3839 3	L.E.D
1C401	NE657N	001 060 7796 3 001 060 7693 9		D817	LN346GP	001 032 3829 5	L.E.D
IC701	AN6888		INTEGRATED CIRCUIT	D818	LN446YP	001 032 3834 8	L.E.D
I C801	MN1402ST0	001 061 4555 5	INTEGRATED CIRCUIT	D819	LN846RP	001 032 3839 3	L.E.D
TRANSISTORS				D820, D821	MA165	001 032 0494 0	DIODE
Q1, Q2	2SD1450R	001 030 4366 1		D822, D823	MA165	001 032 0494 0	DIODE
Q3, Q4	2SJ40CD	001 030 2807 5		VARIABLE RESISTO	DRS		
Q5, Q6	2SJ40CD	001 030 2807 5		VR1, VR2	EVND4AA00B24	001 180 2244 1	VARIABLE RESISTOR
Q7, Q8	2SC3311A-Q	001 030 5279 5		VR3, VR4	EVND4AA00B24		VARIABLE RESISTOR
09. 010	2SA1309AQS	001 030 4846 0		VR5, VR6	EVND4AA00B14		V.R., 10KΩ(B)
Q11, Q12	2SA1309AQS	001 030 4846 0		VR7, VR8	EWABP1X05A54		VARIABLE RESISTOR
Q13, Q14	2SC3311A-Q	001 030 5279 5		VR301, VR302	EVND4AA00B15		VARIABLE RESISTOR
Q15, Q16	2SC3311A-Q	001 030 5279 5		VR801, VR802	EVN49C00YB14		V.R., 10KΩ(B)
Q301, Q302	2SC3311A-Q	001 030 5279 5		VR803	EVN49C00YB14		V.R., 10KΩ(B)
0303	2SD592ANCQ	001 030 1752 7		COILS AND TRANS	FORMERS		
0304	UN4211	001 030 4033 9		L1, L2	SLQX303-1KT	001 211 3955 3	COLL
0401, 0402	2SC3311A-Q 2SC3311A-Q	001 030 5279 5 001 030 5279 5		L3, L4	SLQX272-1YT	001 211 0649 2	
Q403, Q404	2SA1309AQS	001 030 4846 0		L5, L4 L5	ELEPK271KA		COIL FILTER
Q405 Q601, Q602	2SD592ANCQ	001 030 1752 7		L401, L402	QLB40048	001 210 7275 9	
0603	2SB621A-R	001 030 0668 6		T301	SL09C19-K		OSCILLATOR COIL
Q801, Q802	UN4113	001 030 2900 9		T601 △	SLT5K232SA		POWER TRANSFORMER
Q803, Q804	UN4113	001 030 2900 9		E, EG, EH	OE I SINEBEGIA	001 202 1301 Z	TOWER TRANSPORTER
Q806	2SA1309AQS	001 030 4846 0		T601 △	SLT5K233SA	001 202 8312 3	POWER TRANSFORMER
Q807, Q808	2SD592ANCQ	001 030 1752 7		XA, XB	0210120011		TOTAL TIME TO STATE
Q809, Q810	UN4114	001 030 4832 6		T601 △	SLT5K234SA	001 202 7979 0	POWER TRANSFORMER
Q811, Q812	2SD381D	001 030 7411 1		EK, XL	02.0.20.0.	007 202 1010 0	, one , that or or and .
DIODES				COMPONENT COM	BINATIONS		
D1, D2	MA165	001 032 0494 0	DIODE	Z1, Z2	EXRP150K104T	001 230 0410 6	COMPONENT COMBINATION
D301, D302	MA165	001 032 0494 0		EK, XL			
D601	MA4062-M	001 032 7211 7	DIODE	Z3, Z4	EXRP222K154T		COMPONENT COMBINATION
D602	MA4082M	001 032 4955 6	DIODE	EG			
D603, D604 A	SVD1SR35200A	001 032 3951 4	RECTIFIER	Z801	EXBF7E562J	001 230 1578 9	COMPONENT COMBINATION
D605, D606 A	SVD1SR35200A	001 032 3951 4	RECTIFIER	SWITCHES			
D607. D608 🛆	SVD1SR35200A	001 032 3951 4	RECTIFIER	S1, S3	SSH3709	000 ADE CODE O	PUSH SWITCH
D610	MA4075M	001 032 7212 6	DIODE	S4	SSH3709		PUSH SWITCH
D704A, D704B	LN463YCPPU	001 032 7887 9		S601 A	SSH1226		PUSH SWITCH
D704C, D704D	LN463YCPPU	001 032 7887 9		S802 A	SSR187-1		SW. VOLTAGE SELECT
D704E, D704F	LN463YCPPU	001 032 7887 9		XA, XB	JUNIOF 1	W 400 2201 3	SH, TOE MAL SELECT
D704G, D704H	LN863RCPP	001 032 7263 5		S901, S902	SSP83	003 434 0996 9	SW
D7041, D704J	LN963RCPP	001 032 7263 5		S903	SSP83	003 434 0996 9	
D704K, D704L	LN863RCPP	001 032 7263 5		S904	LSA-1150AU	003 434 0994 1	
D801, D802	MA165	001 032 0494 0		S905, S906	SSP83	003 434 0996 9	
D803, D804	MA165	001 032 0494 0		S907	LSA-1150AU	003 434 0994 1	1
D805, D806	MA165	001 032 0494 0		S907	SSP83	003 434 0996 9	
D807. D808	MA165	001 032 0494 0	DIODE	S908	LSA-1150AU	003 434 0994 1	-

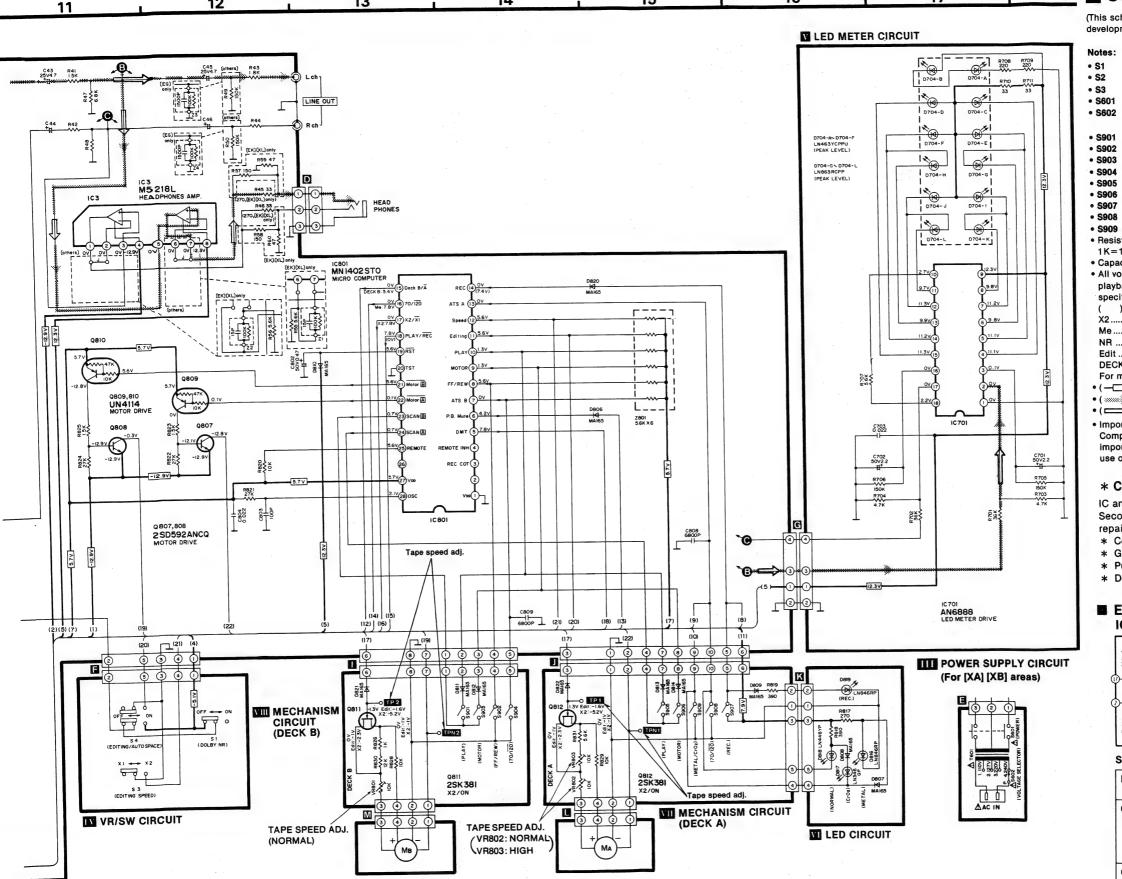




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SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with the development of new technology.)

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: Editing switch in "off" position.

: Editing speed select switch in "X1" position.

: Dolby NR switch in "off" position. • S3

: Power switch in "off" position.

: Voltage selector switch in "240 V" position.

(110V ← 127V ← 220V ← 240V) ([XA], [XB] areas only)

: DECK B play switch in "off" position.

DECK B FF/REW switch in "off" position. : DECK B motor switch in "off" position.

: DECK B 70/120us detection switch in "off" position.

: DECK A play switch in "off" position.

: DECK A motor switch in "off" position.

: DECK A rec switch in "off" position.

: DECK A 70/120µs detection switch in "off" position.

• \$909 : DECK A Metal/CrO₂ detection switch in "off" position.

 \bullet Resistance are in ohms (Ω), 1/4 watt unless specified otherwise. $1 K = 1,000 (\Omega), 1 M = 1,000 k (\Omega)$

Capacity are in micro-farads (μF) unless specified otherwise.

 All voltage values shown in circuitry are under no signal condition and playback mode with volume control at minimum position otherwise specified.

.. Voltage values at record mode.) Voltage values at Editing speed X2 mode. Voltage values at Metal tape mode. ... Voltage values at Dolby NR mode.

.... Voltage values at Editing mode. DECK B Voltage values at DECK B Playback.

For measurement us EVM.

• (———) indicates B (bias).

• () indicates the flow of the playback signal.
• () indicates the flow of the record signal.

· Important safety notice

Components identified by \(\triangle \) mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

* Caution!

IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during

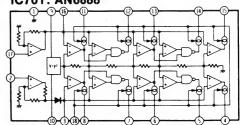
* Cover the parts boxes made of plastics with aluminum foil.

* Ground the soldering iron.

* Put a conductive mat on the work table.

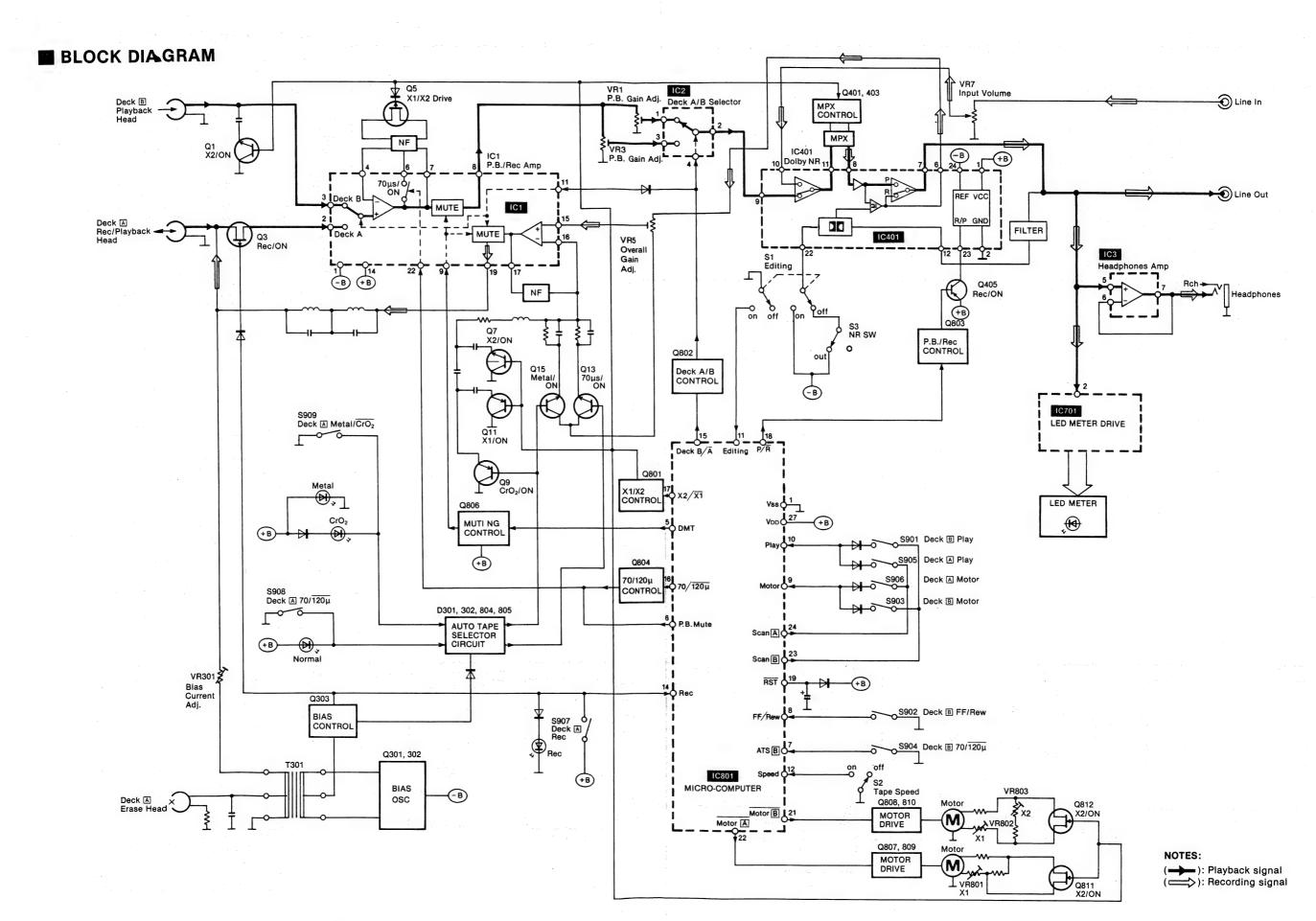
* Do not touch the legs of IC or LSI with the fingers directly.

EQUIVALENT CIRCUIT IC701: AN6888



SPECIFICATIONS * Input level control ... MAX

Playback S/N ratio ★ Test tapeQZZCFM	Greater than 45dB
Overall distortion * Test tape QZZCRA for Normal QZZCRX for CrO ₂ QZZCRZ for Metal	Normal Less than 3.5% CrO ₂ , Metal Less than 4%
Overall S/N ratio * Test tape QZZCRA	Greater than 43dB (without NAB filter)



■ REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Code	Description	Ref. No.	Part No.	Part Code	Description
CASSETTE DECK				164	SMQ.T1589	016 718 3304 3	
	SJH103	001 270 1833 9	MAGNETIC HEAD	166	SMQ.4872 SMQ.4880		EJECT KICK LEVER FUNCTION LEVER W/SP
101	SULIO	WI EIV 1000 3	(DECK B)	168	SMQ.4880 SMQ.T1590		SUB CHASSIS
101	RJH4C35GZAM	001 270 1680 8	MAGNETIC HEAD	169	SMQ.4888		M GEAR SPRING
101			(DECK A)	171	SMQ.4890	016 728 0090 4	TRIGGER ARM SPRING
102	SMQ.4596	016 726 0239 1		172	SMQ4892	016 717 0150 0	TRIGGER ARM ASSEMBLY
103	RJH7E5YAM	001 270 1681 7		173	SMQ.4894	016 745 0071 0	
			(DECK A)	174.	SMQ.4896	016 745 0130 6	
103	SJH97	001 2/0 1682 6	MAGNETIC HEAD (DECK B)	175	SMQT1591	016 752 0121 6	
101	CMO 4700	016 630 0142 0		176	SMQT1592		FLYWHEEL ASSY TRIGGER ARM
104	SMQ.4768 RFD135ZA	015 845 0361 4		177	SMQ.4902 SMQ.4904	016 717 0151 9	TRIGGER ARM SPRING
105 106	SMQT1581	005 500 5750 4		178 179	SMQ.4904 SMQ.4906		PAUSE ARM ASSY
107	SMQ4770	016 726 0242 6	HEAD PANEL SPRING	180	SMQ4909	016 726 0780 5	
108	SMQ4772		TAKE UP ROLLER ASSY	181	SMQ4910		LIFT ARM COLLAR
109	RFS249ZA	015 726 2227 5		182	SMQT1593	016 717 0243 6	
110	SMQ4774		FUNCTION LEVER STOPPER	183	RFS248ZA	015 726 2226 6	
111	SMQ.4776		PINCH ROLLER ASSY	184	SMQT1731		MOTOR ASS/Y
112	SMQT1458	016 630 0224 9		185	SMQT1633		FM- HOLD PLATE
113	SMQ.4778	016 /18 0306 3	REC SAFETY LEVER (DECK A)	186	SMQ4916		MOTOR RUBBER
114	CNO 4790	016 797 0061 6	PACK HOLDER SPRING	187	SMQT1595	016 630 1710 6 016 726 0251 5	
114	SMQ.4780 SMQ.4782		FLYWHEEL METAL	188	SMQ.4922 SMQ.4940		KICK LEVER
115	RFY183ZA	015 718 3291 9		190	SMQ.4940 SMQ.4858		BUTTON LEVER SPRING
116 117	SMQ4786	016 650 0555 1		191	SMQ.71453	016 726 0423 3	
118	SMQT1629	016 726 0778 9		192 193	SMQT1598	016 650 5194 6	
119	SMQ4788	016 650 0556 0	COLLAR	194	SMQ.T1680	016 643 1042 8	
120	SMQ4790		CONTROL LEVER	195	RFS378Z	016 726 0610 2	SPRING
121	RFS379Z	016 726 0430 4		205	RFS378Z	016 726 0610 2	SPRING
122	SMQ4792		BRAKE SPRING	SCREWS, WASHE	RS & NUTS		
123	SMQ4794		BRAKE ARM ASSEMBLY	131	SMQ4168	016 650 0538 2	COLLAR
124	SMQT1630	016 726 0777 0	SPRING	134	SMQT1582	005 500 5751 3	
125	SMQ4800	016 726 0779 8	SUPPLY REEL ASSEMBLY	147	SMQ.4838		COLLAR SCREW
126	SMQ.T1636 SMQ.4804		TAKE UP REEL ASSEMBLY	165	SMQ4870		COLLAR SCREW
127	SMQ.4806		SENSING PIECE	167	SMQ.4878		COLLAR SCREW
128 129	SMQ.4808	016 726 0244	SENSING PIECE SPRING	189	SMQ4942		COLLAR SCREW
130	SMQ.4810	016 745 0069	FF GEAR	196	SMQ4936		NYLON WASHER
132	RFU16ZA	015 630 1587 9		197	XSN2+8		SMALL SCREW
133	SMQ4814		T, ROLLER KICK LEVER	198	SMQT1634	005 500 5867 2 005 513 1459 9	
135	SMQ4818		7 SENSING LEVER	199	XWG2 SMQ4944	005 500 2957	
136	SMQ.4820		3 SENSING LEVER SPRING	200	XYN2+C4	005 503 0548 9	
137	SMQ.4822	016 740 0062	FULLET FULL AUTO BELT	202	XYN2+C6	005 500 1297 (
138	SMQ.4824		1 CAM GEAR	203	XSN26+5	005 500 1361 5	
139	SMQ.4826	016 726 0781		204	XYN2+C5	005 500 1291 (
140	SMQT1631 SMQT1583	016 717 0242		206	RFE133Z		RETAINING RING
141	SMQT1635		4 FLAT BELT	207	SMQ4930		POLYSLIDE WASHER
143	SMQ4832		6 RF SLIDING LEVER ASSY	208	XUC12FT	005 512 0116	
144	SMQ4834	016 718 0312	5 AUTO LEVER	209	XUC2FT	005 512 0126	
145	SMQ4938		5 AUTO LEVER COLLAR	210	XYN26+C6		1 SMALL SCREW
146	SMQ4836		9 BUTTON BASE(L)	211	XUC15FT	005 512 0121	1 WASHER 0 NYLON WASHER
148	SMQ4840		8 BUTTON BASE(R)	212	SMQ.4932 SMQ.4934	005 500 2956	
149	SMQT1585	016 643 0920		213	XTN26+3		5 TAPPING SCREW
	040 = 4 = 60	010 710 000	(DECK A)	214 215	SMQT1454	005 513 4008	
150	SMQT1586	016 718 3306	(DECK A)	216	SQM4918		6 COLLAR SCREW
151	CMU 1010	016 719 M15	2 PLAY BUTTON LEVER	217	RFN73Z	016 643 0778	
151	SMQ4846 SMQ4848		1 RWD BUTTON LEVER				
152 153	SMQ4850	016 718 0317	0 FF BUTTON LEVER				
153	SMQ.4852		9 STOP BUTTON LEVER				
155	SMQ4854		8 PAUSE BUTTON LEVER ASSY				
156	SMQ.4856	016 726 0246	2 BUTTON LEVER SPRING				
157	SMQ.4858	016 726 0247	1 BUTTON LEVER SPRING				
158	SMQ.4860	016 726 0248	O PAUSE LEVER SPRING				
159	SMQ2444	016 718 020	7 LEVER				
160	SMQ4862	016 652 030	6 P STOPPER				
161	SMQT1588		7 SPRING				
162	SMQT1587		52 LEVER		-		
163	RFS253ZA	015 /26 223	28 SPRING	1			

--- 27 ---

■ MECHANICAL PARTS LOCATION

- When changing mechanism parts, apply the specified grease to the are marked "××" shown in the drawing "Mechanical Parts Location".

"Mechanic	cal Parts Location".						
Ref. No.	Part Name	Part No.	197				209 👍 🔞
0	ROCOL PASTE	RZZ0L06		198	134		173
0	FLOIL G-488M	SZZ0L28		190		180 134 2	09
0	FLOIL 947P	RZZ0L02	9 8	9 6	9 0	100	
0	SILICONE OIL NO. 2	SZZ0L12		101	1 1		The state of the s
9	FLOIL G-488	SZZ0L10		101	TE STO	6	1
6	FLOIL G-311S	SZZ0L26	400	3 15		19 -	
- 0	FLOIL G-3113	OZZOLIO	103		177	17	4
			199			170	
		,	02 102		`.	179	0
			102	9			189
PECIFICA	TIONS		2				189
	value indicated by the t			7	134		
fluc	tuate during torque mea	asurement.					170
In th	hat case, obtain the mid	idle of the values	000				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Pressure o	of pressure roller 35	0±50g	1	04	3	66 178	171
			0		165	178	
akeup ten	nsion sette torque 35~	-70g-cm		106		7 1	Tall Tall
meter	QZZSRKCT	-70g-ciii		700	D. J.	217	
				Ω	162	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
		ss than		2000	2.0	2 / J	
* Use tes		(WRMS)	105	109		Zakan	
				5		164	A PROPERTY OF THE PROPERTY OF
		•		- Tumbé	We's	164	0
						163	
		•	202		0		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		đị	/				
	(SS	904, 908)	202	108		_	() () () () ()
			S909)		9	160 ①	(DECK A)
	(D.E.O.	1 1 1 1	0303/1		158	159/191	149
	(DEC			(DECK A)	161	157	100
	i	113/ 107			Samme Common	and the second s	0
	1		(DECK A)	96		3 191	152
		S / Management	(DEGIL A)	213		The state of the s	
		11/	213	1213	155-	154	
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			407 000 400	199 198		191 217 191	209 209 210 1E 189 181 1E
			202 197 202 196	199 198		191 217 191	189 181 18

	202	197 214	202 19 213 2	6 199 1				191	217	191	209	209 189	210 18 181 18
		214	210 2			177 165	161 155 16 166 146 15	60 180 162 1 64 158 159 1	63 179 157 53 167 164		178 174 147	170 173 152	171 171 149 151 148
113 112	107 114	02 103 ₁₀₄	115	102 11 106 1	101 109 1 108	13	4 134		134				

MECHANICAL PARTS LOCATION

 When changing mechanism parts, apply the specified grease to the are marked "××" shown in the drawing "Mechanical Parts Location".

Ref. No.	Part Name	Part No.
0	ROCOL PASTE	RZZ0L06
0	FLOIL G-488M	SZZ0L28
0	FLOIL 947P	RZZ0L02
0	SILICONE OIL NO. 2	SZZ0L12
6	FLOIL G-488	SZZ0L10
6	FLOIL G-311S	SZZ0L26

WASHER SCREW

1 SCREW SCREW R SCREW

escription

CICK LEVER ON LEVER W/SP ASSIS

SPRING ER ARM SPRING R ARM ASSEMBLY

EL ASSY R ARM ER ARM SPRING ARM ASSY M COLLAR

ASS/Y _D PLATE RUBBER ΓE

EVER LEVER SPRING

EAR GEAR ELT

IING RING . I DE WASHER

SCREW WASHER

IG SCREW SCREW

"Mechanical Parts Location".	176	
Ref. No. Part Name Part No. 197 ROCOL PASTE RZZOL06 198	209	n 185 O
FLOIL G-488M SZZOL28	180 134 209 210	
FLOIL 947P RZZ0L02 SILICONE OIL NO. 2 SZZ0L12		G
SILICONE OIL NO. 2 SZZOL12 FLOIL G-488 SZZOL10	0 (181 175 G) 207	1/5
● FLOIL G-311S SZZOL26 103	212-9	188
102	177 179 182 182 138 137	187
102	207	196
SPECIFICATIONS	189	6 186 186
NOTE: The value indicated by the torque tape may fluctuate during torque measurement.	134	216
In that case, obtain the middle of the values.	170	35 @
Pressure of pressure roller 350±50g	165 166 178 1771 168 189	405
Takeup tension * Use cassette torque 35~70g-cm 106	0 167	195
meterQZZSRKCT	217	
Wow and flutter; (JIS) Less than	162	143
* Use test tape 0.1% (WRMS) 105		
	164	201
202	163	
		142
(S904, 908) 202 108	(DECK A) 190 190	
(S909)	9-100	
(DECK A)	161 156 156	
9 113/ 107	101	
(DECK A) 196	118	
213	155 151	130
114	153	207
	204	
112	203	123
214	119 204 (DECK A)116 (DECK A)116	(112)
	14/	122
111		120
	146	J. J.
192	a little	0
	B	204
0		
•		
107 202 106 100 108	191 217 209 209 210 182 212 200 190 207 207 191 189 181 183 203 189 204 204 208 201 215	187 188 185 186 186 206 204 207 201 195 216 211
202 197 202 196 199 198 202 214 213 213 192	191 217 191 189 181 183 203 189 204 204 208 201 215	206 204 207 201 195 216 211

■ REPLACEMENT PARTS LIST

Notes: * Important safety notice:

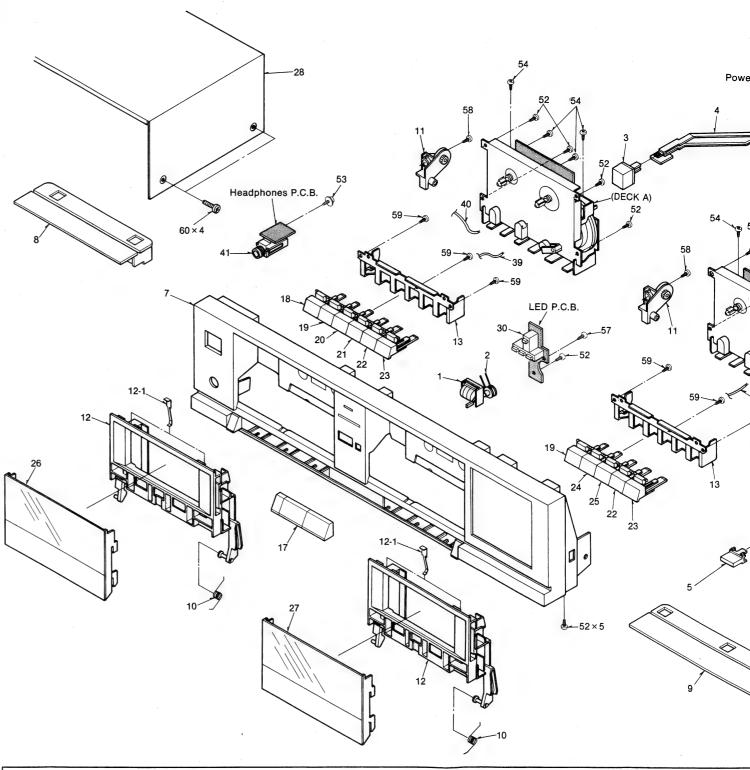
Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

- Bracketed indications in Ref. No. columns specify the area.
- Parts without these indications can be used for all areas.

Ref.	No.	Part No.	Part Code	Description	Re	f. No.	Part No.	Part Code	Description
CARINE	TAND	CHASSIS			21	®	SBC869A	016 702 6654 8	
1	1 /1110	SJN20	016 892 0121 5	TAPE COUNTER	22	S	SBC805A-1	016 702 6419 7	
1,		SMQ20018		ANGULAR BELT	22	®	SBC870A	016 702 6655 7	
2	(\$)	SBC666		BUTTON, POWER	23	(\$)	SBC806A-1	016 702 6417 9	
3	(R)	SBC666-5		BUTTON, POWER	23	®	SBC871A	016 702 6656 6	
4	Ø.	SUB255	016 712 0316 1		24	(\$)	SBC803B-1	016 702 6476 8	
	®	SBC944	016 702 7018 6		24	®	SBC868B	016 702 6652 0	
5	(S)	SBC944-1	016 702 7117 4		25	(\$)	SBC804B-1	016 702 6474 0	
5	(S)	SKMST11-KE		CABINET BODY	25	®	SBC869B	016 702 6653 9	
6		SKM3111-KE	010 000 3137 3	CADINEI BODI	26	®	SGE1893		CASSETTE LID
E		SKMST11-KG	010 000 2124 2	CABINET BODY	26	(\$)	SGE1893-2		CASSETTE LID
6		SVM3111-VG	010 000 3134 2	CABINET BODT	27	(8)	SGE1893-1		CASSETTE LID
EG. EH		SKMST11-KK	010 900 2142 1	CABINET BODY	27	(\$)	SGE1893-3	016 820 0616 9	
6		SUMSTITUTE	010 000 3143 1	CABINET BODT	28	®	SKC2090K99		CABINET BODY
EK		SKMST11-KL	010 000 0105 1	CABINET BODY	28	S	SKC2090S98		CABINET BODY
6		- SKMSIII-KL	016 800 3133 1	CABINET BODT	29		LN121307P		DIODE, GAASP
XL		OVMOT11 VV	010 000 0100 0	CABINET BODY	30		LN041395P		DIODE, GAASP
6		SKMST11-KX	016 800 3136 0	CABINEI BODI	31		SJF3057NK	003 410 8123 0	TERMINAL BOARD
XA, XB		01/1 000	010 000 0000 0	DUDDED	32	Δ	SJS9236	003 403 4660 7	
6-1	_	SKL293	016 828 0269 8	FRONT PANEL (K)	34		SJT30540LX-V	003 410 5996 1	CONNECTOR
7	Ø	SGYST11-KE			34		SJT30840LX-V	003 410 5998 9	LUG TERMINAL
7	\$	SGYST11-SE		FRONT PANEL (S)	34		SJT31040LX-V	003 410 6112 1	LUG TERMINAL
8		SGX7894	016 846 3777 9		35		QJP1920TN-1	003 403 7219 8	CONNECTOR
9		SGX7895	016 846 3776 0		35		QJP1921TN-1	003 403 7220 5	CONNECTOR
10		SUS797	016 726 0677 3		36		SMC1227		SHI ELD COVER
11		SGXST25-KP	016 846 3480 3		37		SMN2043	016 632 1880 9	ANGLE
12		SGXST17-KM		CASSETTE HOLDER	38		SWKST11M1	016 934 0162 5	P.HEAD WIRE
12-1		QBP2006A	015 727 0706 8		39		SWKST11M2	016 934 0161 6	R/P HEAD WIRE
13		SMN2001-1	016 632 1784 8		40		SWKST11M3	016 934 0160 7	E,HEAD WIRE
14	Ø	SGX7899	016 846 3774 2		41		QJA0455ZC	003 400 5218 2	JACK
14	S	SGX7899-1		METER ORNAMENT	SCRE	WS WAS	HERS & NUTS		
15	180	SBD144	016 700 1979 0		1	110.1170	XTBS3+8JFZ1	005 501 2523 0	CCDEM
15	\$	SBD144-1	016 700 2000 6		51			005 501 2523 0	
16	Ø	SGX7898	016 846 3775 1		52		XTB3+10J		
16	(\$)	SGX7898-1		SLIDE GUIDE	53		XTWS3+10Q	005 501 2293 5	
17	Ø	SGX7897	016 846 3796 6		54		XTB3+6F	005 501 2687 1	
17	S	SGX7897-1	016 846 3853 4		55		XTW3+12Q		TAPPING SCREW
18	S	SBC801A-1	016 702 6427 7		56		XTB3+12JFZ		TAPPING SCREW
18	(K)	SBC866A	016 702 6649 5		57		XTV26+6J	005 501 1301 6	
19	S	SBC802A-1	016 702 6425 9		58		XTB3+12J	005 501 1534 1	
19	Ø	SBC867A	016 702 6650 2		59		XTV26+8J	005 501 1140 5	
20	S	SBC803A-1	016 702 6423 1		60	S	SNE2125	005 500 5753 1	
20	\otimes	SBC868A	016 702 6651 1	BUTTON	60	\otimes	SNE2125-1	005 500 5752 2	
21	\$	SBC804A-1	016 702 6421 3	BUTTON	61		XTB3+8JFZ	005 501 0138 3	SCREW

Ref.	No.	Part No.	Part Code	Description	Ref.	No.	Part No.	Part Code	Description
PACKIN	GS				A1	Δ	SJA183	003 490 4873 7	POWER CORD
P1 P1 P2	8	SPG5881 SPG5882 SPS4963		PACKING CASE CARTON BOX PAD	A2 A3		SJPK2202	003 492 6415 1	CORD
P3 P4 P5		SPS4964 SPS4905 XZB50X65B02		PAD PAD PROTECTION COVER	EK A3 E. EH		SQF12910	016 983 5249 4	INSTRUCTION BOOK
ACCESS	SORIES	7,200,1000			A3 EG		SQF12911	016 983 5250 1	INSTRUCTION BOOK
A1 E. EG. E	 ∆ H XA	SFDAC05E03	003 490 4809 5	POWER CORD	A3 XA, XL		SQ.F12968	016 983 5254 7	INSTRUCTION BOOK
A1 EK	Δ	SFDAC05G02	003 490 2613 3	POWER CORD	A3 XB		SQF13047		INSTRUCTION BOOK
A1 XL	Δ	SJA163	003 490 2503 8	POWER CORD	A4 XA, XB		SJP5213	003 492 0736 1	PLUG

■ CABINET PARTS LOCATION



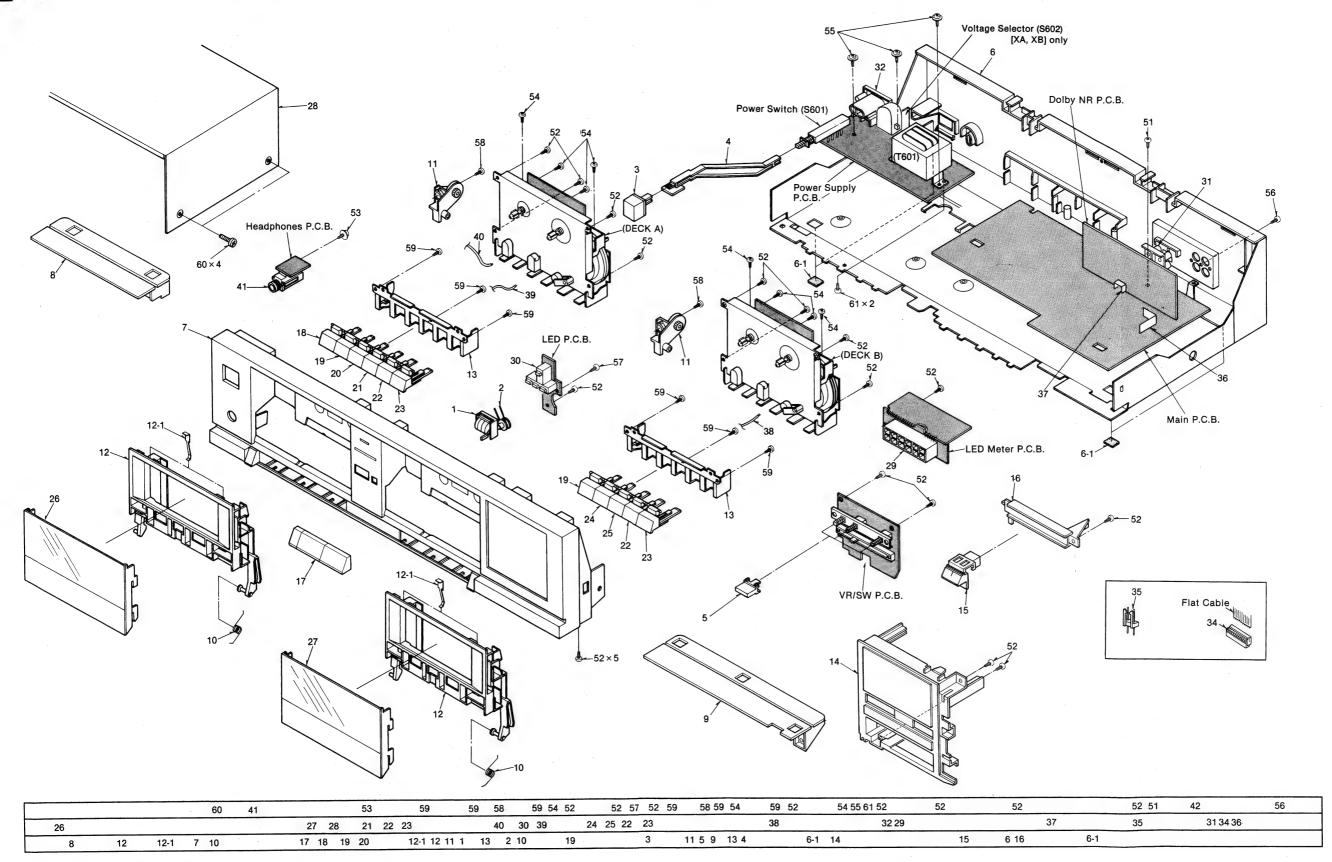
RS-T11

	60	41		53	59 5	9 58	59 54 52	52 5	7 52 59	58 59 54
26	-		27 28	21 22	23	40	30 39	24 25 22	23	
8 12	12-1 7 10	•	7 18 19	20	12-1 12 11 1	13 2	2 10 19		3	11 5 9 13 4

— 30 —

— 31 —

■ CABINET PARTS LOCATION



Dolby NR-Equipped Stereo Cassette Deck

DEUTSCH

Verwenden Sie bitte diese Broschüre zusammen mit der Service-Anleitung für das Modell Nr. RS-T11.

MESSUNGEN UND EINSTELL METHODEN

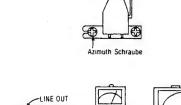
Meßinstrumente

- Elektronisches Voltmeter(EVM)
- Oszilloskop
- Digitaler Frequenzmesser
- Audiofrequenz-Oszillator

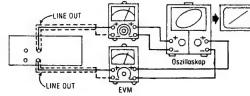
- Dämpfungswiderstand
- Gleichstrom-Voltmeter
- Widerstand (600Ω)

Kpofazimut-Justierung

- 1.Den Azimut-Justierungsteil (8kHz, -20dB) des Testbandes (QZZCFM) wiedergeben und die Winkeljustierungs-Einstellschraube so verstellen, daß der Ausgang vom linken und rechten Kanal maximal wird. (Wenn die Justierpositionen for den linken und rechten Kanal verschieden sind,ist eine Position zu finden, wo der Ausgang des linken und rechten Kanals ausgelichen ist, und dann ist die Justierung durchzuführen.)
- Gleichzeitig eine Lissajous-Wellenform ziehen und Phasenablenkung eliminieren.
- Nach erfolgter Justierung sind die Bandführungs-Höhen-und-Winkeljustierschrauben zu sichern.



Koptes



Autnaham/Wiedergabe

Bandgeschwindigkeits-Justierung

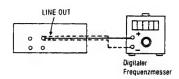
-- Schneller Bandlauf --

- 1.Stellen Sie den Bandgeschwindigkeitswählschalter auf "X2" und schließen Sie Deck A an TP1 und TPN1 und Deck B an TP2 und TPN2 kurz.
- Spielen Sie den Mittelteil des Testbandes (QZZCWAT) ab.
- Justieren Sie VR803 von Deck A so, daß die Abgabewerte innerhalb der Standardwerte liegen.

-- Normaler Bandlauf --

- 4.Stellen Sie den Bandgeschwindigkeitswählschalter auf "X1" und unterbrechen Sie Deck A in TP1 und TPN1 und Deck B in TP2 und TPN2.
- 5.Spielen Sie den Mittelteil des Testbandes (QZZCWAT)
- 6.Justieren Sie VR802 von Deck B und VR801 von Deck A so, daß die Abgabewerte innerhalb der Standardwerte liegen.

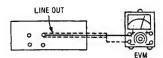
Standardwert: 3000±15Hz(Normal), 6000±630Hz(Schnell)



Wiedergabe-Frequenzgang

 1.Den Wiedergabe-Frequenzgangteil (315Hz, 12,5kHz~63Hz, -20dB) des Testbandes (QZZCFM) wiedergeben.

 Überprüfen, ob der Frequenzgang innerhalb des in Abb.
 für den linken und rechten Kanal gezeigten Bereichs liegt.



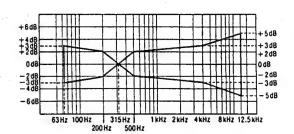


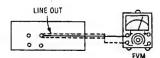
Abb. 1

Justierung des Wiedergabe-Verstärkungsgrades

 1.Den für den Wiedergabe-Verstärkungsgrad justierten Teil (315Hz, 0dB) des Testbandes (QZZCFM) wiedergaben.

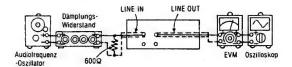
2.Den VR1 (linker Kanal) (VR2 (rechter Kanal)) für Deck B und den VR3 (linker Kanal) (VR4 (rechter Kanal)) für Deck A so justieren, daß die Ausgangsleistung dem Standard-Wert entspricht.

Standard-Wert: 0,4 ± 0,02V



Gesamtfrequenzgang

- Legen Sie eine normale Leerkassette (QZZCRA) ein und nehmen ein Signal (50Hz ~ 12.5kHz) von 20dB auf, das durch das Referenzeingabepegelsignal (1kHz, -24dB) gedämpft wird.
- 2.Das in Schritt 1 autgezeichnete Signal wiedergeben und prufen, ob der Pegel jeder Ausgangsfrequenz im Bereich liegt, der in Abb. 2 in Vergleich zur Referenzfrequenc (1kHz) gezeigt wird.
- 3.Falls er nicht im Standard-Bereich liegt, ist der Vormagnetisierungs- strom mit VR301 (linker Kanal) (VR302 (rechter Kanal)) für Deck A so zu justieren, daß der Frequenzpegel innerhalb des standards zuliegen kommt.
- 4.Anschließend das auf der CrO2 -Leerband-Cassette (QZZCRX) und der Reineisenband-Leercassette (QZZCRZ) aufgezeichnete Signal auf 15kHz erhöhen und auf gleiche Weise justieren, Wie vorgehend beschrieben. Dann überprüfen, ob der Frequenzpegel innerhalb des in **Abb. 3** gezeigten Bereichs liegt.



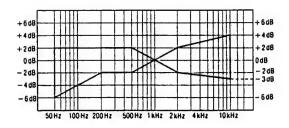


Abb. 2

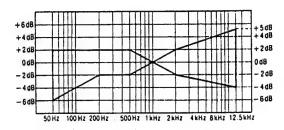


Abb. 3

Justierung des Gesamtverstärkungsgrades

1.Ein Normalband-Leercassette (QZZCRA) einsetzen und im Aufnah mepause- Zustand des Gerätes das Referenzsignal (1kHz, -24dB) eingeben.

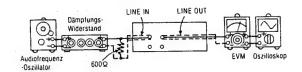
2.Die Ausgangsleistung mit dem Dämpfungswiderstand

auf 0.4V justieren und dann aufnehmen.

3.Das in Schritt 2 aufgezeichnete Signal wiedergeben und Ausgongsleistung die überprüfen, ob Standard-Wert entspricht.

4.Falls sie nicht dem Standard-Wert entspricht, ist der VR5 (linker Kanal) ((VR6 (rechter Kanal))) für Deck A Zu justieren, und dann sind die Schritte(1), (2) und (3) zu Ausgangsleistung Wiederholen, bis die Standard-Wert entspricht.

Standard-Wert: 0,4V ± 0,5dB (0,02V)



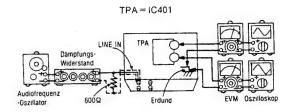
Dolby-Rauschunterdrückungs-Schaltkreis

Normalband-Cassette einsetzen und Aufnahmepause-Zustand des Gerätes ein 5kHz-Signal eingeben.

2.Mit dem Dämpfurgswidersand so justieren, daß die Ausgangsleistung zwischen Anschluß 6 (linker Kanal) ((Anschluß 19 (rechter Kanal))) des IC401 und Masse 12,3mV beträgt.

3.Den Rauschunterdrückungs-Schalter (NR) einschalten und prüfen, ob der Pegel wie vorgeschrieben gegenüber dem Pegel im rauschunterdrückungsfreien Zustand verändert wird.

Standard-Wert: 8 ± 1,5dB



FRANÇAIS

Ceci est à utiliser conjointement avec manuel d'entretien du modèle No. RS-T11.

METHODES DES MEASURES ET REGLAGES

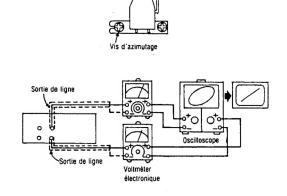
Apparelis de mesurage

- Voltmètre électronique
- Oscilloscope
- Compteur de fréquence numérique
- · Oscillateur de fréquence audio

- A.T.T.(Atténuateur)
- Voltmètre à C.C.
- Résistance (600Ω)

Réglage de l'angle des têtes de lecture

- 1.Faire jouer la partie réglée azimutale (8kHz, -20dB) de la bande d'essai (QZZCFM) et régler la vis de mise au point azimutale de telle sorte que les puissances de sortie du canal de gauche et du canal de droite soient au maximum.
 - (Si les positions de réglage du canal de gauche et du canal de droite sont différentes, trouver une position où les puissances de sortie des canaux de gauche et de droite soient équilibrées, puis effectuer la mise au point.)
- 2.En même temps, établir une forme d'onde de Lissajous et éliminer la déviation de phase.
- 3.Après le réglage, bloquer les vis du réglage angulaire et de la hauteur des guides de bande.



Tête en Enregistrement/

Réglage de la vitesse de défilement de la bande

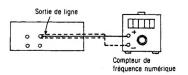
-A grande vitesse-

- 1.Régler le commutateur de vitesse de défilement de la bande de montage sur "X2" et court-circuiter la platine A sur TP1 et TPN1, et la platine B sur TP2 et TPN2.
- Faire jouer la partie centrale de la bande d'essai (QZZCWAT).
- 3. Ajuster la platine A sur VR803 de telle sorte que la puissance de sortie soit en deçà de la normale.

-Vitesse normale-

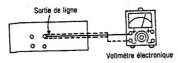
- 4.Régler le commutateur de vitesse de défilement de la bande de montage sur "X1" et mettre hors circuit la platine A sur TP1 et TPN1 et la platine B sur TP2 et TPN2.
- 5.Faire jouer la partie centrale de la bande d'essai (QZZCWAT).
- Ajuster la platine B sur VR802 et la platine A sur VR801 de telle sorte que la puissance de sortie soit en deçà de la normale.

Valeur standard: 3000±15Hz(normale); 6000±630Hz(élevée)



Réponse en Fréquence de la lecture

- Faire jouer la partie de la réponse en fréquence de la lecture (315Hz, 12,5kHz~63Hz, -20dB) de la bande d'essai (QZZCFM).
- 2. Vérifier que la fréquence soit en deçà de la plage montrée à læ Fig.1, à la fois pour le canal de gauche et le canal de croîte.



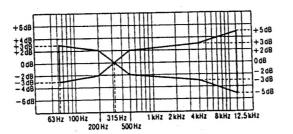
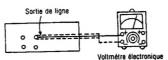


Fig. 1

Réglage d'armplification de la lecture

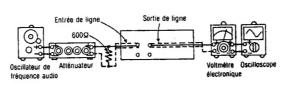
- 1.Faire jouer la partie réglée d'amplification de la lecture (315Hz, 0dB) de la bande d'essai (QZZCFM).
- 2.Régler la platineB: VR1 (canal de gauche) (VR2 (canal de droite)) et la platine A: VR3 (canal de gauche) (VR4 (canal de droite)) de telle sorte que la puissance de sortie so it en deçà de la normale.

Valeur normalisée: 0,4±0,02V



Réponse en fréquence globale

- 1.Installer une bande Vierge normale (QZZCRA) et enregistrer en appliquant un signal (50Hz~12,5kHz), 20dB atténuésà partir du signal du niveau déntrée de référence (1kHz, -24dB).
- 2. Faire jouer le signal enregistré à l'etape 1 et vérifier que le niveau de chaque fréquence de sortie soit en deçà de la plage montrée à la Fig. 2 en comparaison avec la fréquence de référence (1kHz).
- 3.S'il n'est pas en deçà de la plage standard, régler le courant de polarisation avec platine A: VR301 (canal de gauche) (VR302 (canal de gauche)) de telle sorte que le niveau de fréquence soit en deçà de la normale.
- Niveau vers la haut dans la plage de fréquence élevéeAugmenter le courant de polarisation.
- Niveau vers le bas dans la plage de fréquence élevéeDiminuer le courant de polarisation.
- 4.Après cela, amplifier le signal enregistré sur la bande vierger CrO² (QZZCRX) et la bande vierge métallisée (QZZCRZ) jusqu'à 15kHz et régler de la même manière que celle mentionnée ci-dessus. Puis, vérifier que le niveau de fréquence soit en deçà de la plage montrée à la Fig.3.



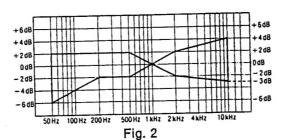
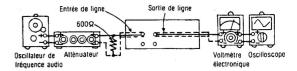


Fig. 3

Réglage d'amplification globale

- Installer une bande vierge normale (QZZCRA) et appliquer le signal de niveau d'entrée de référence (1kHz, -24dB) sur le mode d'intermission d'enregistrement.
- 2.Régler la puissance de sortie 0,4V avec l'atténuateur, puis enregistrer.
- 3. Faire jouer le signal enregistré à l'étape 2 et vérifier que la puissance de sortie soit en deçà de la normale.
- 4.Si elle n'est pas en deçà de la normale, régler platine A: VR5 (canal de gauche) ((VR6 (canal de droite))) et répéter les étapes (1), (2) et (3) jusqu'à ce que la puissance de sortie soit en deçà de la normale.

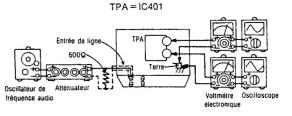
Valeur normalisée: 0.4V±0.5dB(0,02V)



Circuit de réduction des bruits dolby

- Installer une bande normale et appliquer un signal de 5kHz sur le mode d'intermission d'enregistrement.
- 2.Régler avec l'atténuateur de telle sorte que la puissance de sortie entre la borne 6 (canal de gauche) ((borne 19 (canal de droite))) de IC401 et la masse soit de 12,3mV.
- 3. Mettre en marche le commutateur de réduction des bruits et vérifier que le niveau change tel qu'il est spécifié à partir du niveau d'entrée sur le mode de sortie de réduction des bruits.

Valeur normalisée: 8±1,5dB



--- 6 --

ESPAÑOL

Sirvase utilizarse junto con manual de servicio para el model No. RS-T11.

■ METODOS DE AJUSTE Y MEDIDA

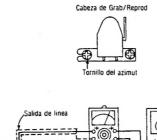
Instrumento de medición

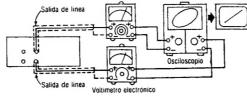
- EVM(Voltímetro electrónico)
- Osciloscopio
- Frecuencimetro digital
- Oscilador AF

- ATT(Atenuador)
- Voltímetro CC
- Resistor(600Ω)

Ajuste acimutal de cabeza

- 1.Reproducir la parte ajustada de acimut(8kHz, -20dB) de la cinta de prueba(QZZCFM) y regular el tornillo de ajuste de ángulo de manera que las salidas de CH-l y CH-D sean maximizadas. (Cuando las posiciones de ajuste sean diferentes de CH-l y CH-D, encontrar una posición donde las salidas de CH-l y CH-D estén equilibradas y, luego, hacer el ajuste.)
- 2.Al mismo tiempo, trazar una forma de onda de Lissajous y eliminar la deflexión de fase.
- 3.Después del ajuste, fije los tornillos de ajuste de altura y ángulo de guía de cinta.





Ajuste de velocidad de cinta

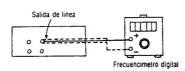
-Alta velocidad-

- Poner el conmutador de velocidad de cinta de compaginación "X2" conectar la Platina A: TP1 y TPN1, Platina B: TP2 y TPN2.
- 2.Reproducir la parte de en medio de la cinta de prueba (QZZCWAT).
- 3.Ajustar la Platina A: VR803 de manera que la salida esté dentro de la estándar.

-Velocidad normal-

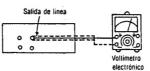
- 4.Poner el conmutador de velocidad de cinta de compaginación en "X1" y abra la Platina A: TP1 y TPN1, Platina B: TP2 y TPN2.
- Reproducir la parte de en medio de la cinta de prueba(QZZWAT).
- 6.Ajustar la Platina B: VR802 y Platina A: VR801 de manera que la salide esté dentro de la estándar.

Valor estándar: 3000±15Hz(normal)6000±630Hz(alta)



Respuesta de frecuencia de reproducción

- Reproducir la parte de respuesta de frecuencia de reproducción (315Hz, 12.5kHz~63Hz,-20dB) de la cinta de prueba(QZZCFM).
- Comprobar que la frecuencia esté dentro de la gama mostrada en la Fig.1 tanto para CH-I como para CH-D.



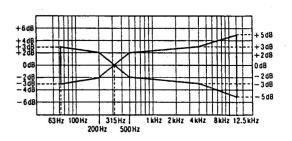
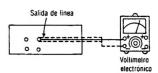


Fig. 1

Ajuste de ganancia de reproducción

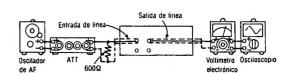
- Reproducir la parte ajustada de la ganancia de reproducción (315Hz, 0dB) de la cinta de prueba (QZZCFM).
- 2. Ajustar la Platina B: RV1(CH-I) ((RV2(CH-D))) y la Platina A: RV3(CH-I) ((RV4(CH-D))) de manera que la salida esté dentro de la estándar.

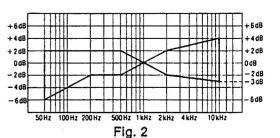
Valor estándar: 0,4±0,02V



Respuesta de frecuencia total

- Poner una cinta virgen normal(QZZCRA) y grabar aplicando señal (50Hz~12,5kHz), 20dB atenuados de la señal de nivel de entrada de referencia(1kHz, -24dB).
- 2. Reproducir la señal grabada en el paso 1 y comprobar que el nivel de cada frecuencia de salida esté dentro de la gama mostrada en la Fig.2 en comparación con la frecuencia de referencia(1kHz).
- 3.Si no está dentro de la gama estándar, ajustar la corriente de polarización mediante la Platina A: RV301(CH-I) ((RV302(CH-D))) de manera que el nivel de frecuencia esté dentro del estándar.
- Subir el nivel en la gama de alta frecuencia Incrementar la corriente de polarización.
- Bajar el nivel en la gama de alta frecuencia Disminuir la corriente de polarización.
- 4.Después de eso, incrementar la señal grabada en la cinta virgen CrO₂ (QZZCRX) y la cinta virgen metálica (QZZCRZ) hasta 15kHz y ajustar de la misma manera como mencionado arriba y comprobar que el nivel de frecuencia esté dentro de la gama mostrada en la Fig.3.





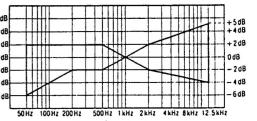
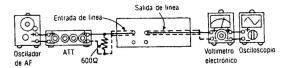


Fig. 3

Ajuste de ganancia total

- Colocar una cinta virgen normal(QZZCRA) y aplicar la señal de nivel de entrada de referencia(1kHz, -24dB) en la modalidad de pausa de grabación.
- 2. Ajustar la salida 0,4V mediante atenuador y luego, grabar.
- 3.Reproducir la señal grabada en el paso 2 y comprobar que la salida esté dentro de la estándar.
- 4.Si no está dentro de la estándar. ajustar la Platina A: RV5 (CH-I) ((RV6 (CH-D))) y repetir el paso (1), (2) y (3) hasta que la salida esté dentro de la estándar.

Valor estándar: 0,4V±0,5dB(0,02V)



Circuito RR Dolby

- Colocar una cinta normal y aplicar señal 5kHz en la modalidad de pausa de grabación. pausa de grabación.
- Ajustar mediante atenuador de manera que la salida entre terminal 6 (CH-I) ((terminal 19 (CH-D))) de IC401 y tierra sea 12,3mV.
- Prender el interruptor RR y comprobar que el nivel cambia como especificado por el nivel en la modalidad de salida RR.

Valor estándar: 8 ± 1,5dB

